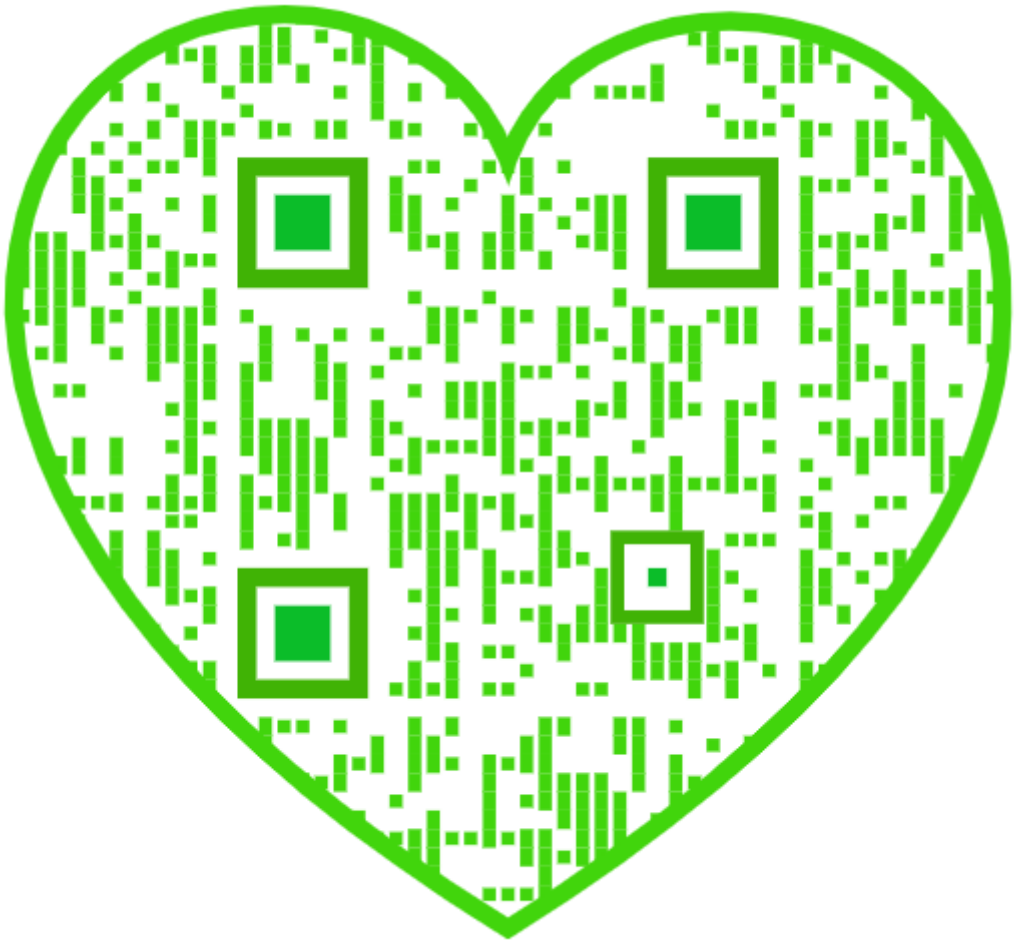

ARCHITECT AND ENGINEER

VETERANS' ADMINISTRATION HOSPITAL—Seattle, Washington

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• ARCHITECT AND ENGINEER

Vol. 188 No. 1

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★

COVER PICTURE

UNITED STATES
VETERANS' ADMINISTRATION
NEW MODERN HOSPITAL
Seattle, Washington

North view of Seattle's $8,000,000 new Veterans' Administration Hospital showing effectiveness of the architects' desire for simplicity.

Structure is located on top of Beacon Hill and commands unsurpassed scenic view of surrounding country.

Architectural design by Naramore, Bain, Brady & Johanson of Seattle. (See Page 16 for detailed story.)

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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EDITORIAL NOTES

WHEN YOUR TURN COMES?

Will there be anything left when it comes your turn to collect on the pay-roll deductions you are now making for "future security"?

An analysis of the national situation shows that during one month last year:

> "One person was drawing unemployment compensation for every seventy-eight employed. One person was receiving old-age or disability benefits for every eleven persons employed. One person was receiving survivors' benefits for every twenty-five persons employed. One person was receiving public assistance payments for every thirteen persons employed."

These are presumed to be "good times" in terms of employment and average family income, what will the situation be if there comes an era of reaction" or even depression?

* * *

No man, woman, or child can expect to escape the payment of a share of the costs of failure of our government officials to economize—this payment will be in inflation or higher taxes, or both.

* * *

MAKE 1952 A SAFE YEAR

The Associated General Contractors of America, Inc., through a special Accident Prevention Committee, has launched a nation-wide program for greater worker safety in the construction industry during 1952.

More than one hundred and eighteen Chapters of the organization throughout the United States are actively participating in the program with many local contractors already determined to prove their safety program is a result producing operation.

Glen W. Maxon, President of the AGCA, in a New Year's communication to Chapter presidents, points out that during 1950 there were 2,300 deaths and 205,000 injuries in the construction industry. The ratio of ninety-three deaths per 100,000 workers in construction is a very poor comparative showing with the average of twenty-seven in all industries. The figures also disclose the construction industry as having had the highest number of injuries per 100,000 workers.

It is obvious from the record that the construction industry make a result producing effort to reduce accidents, and if such is not done, there is grave danger Government will effect compulsory laws requiring costly compliance.

The success of the AGCA accident prevention program will depend upon the cooperation of individual contractor members, as in the final analysis he is the only one who can carry a well planned Safety Program from the national industry to the individual worker level. There is little doubt that the end of 1952 will see considerable progress and success achieved in reducing accidents throughout the construction industry, and the program is one that will accrue to the benefit of many activities closely allied to the construction industry.

* * *

SUPREME COURT DECISION

The United States Supreme Court, in a recent decision, interpreted the disputes clause of the standard government contract form to mean that the determination of the department head is final, and that there can be no recourse to the courts in disputes over findings of fact unless fraud on the part of the government can be proved.

The interpretation appears so positive as to prohibit administrative or judicial remedy, leaving only a legislative remedy for the principles involved.

The decision adds another hazard to contracting, leaving contractors without the possibility of judicial review of findings by government departments no matter how the findings are arrived at, aside from fraud.

THANKS APPRECIATED

Publication of a magazine is similar to any other business or professional endeavor. When a satisfied customer or client takes the time and makes the effort to acknowledge a service well performed, it is a source of pleasure to those performing the work. We appreciate the following:

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Architects & Engineers
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David D. Smith
Herbert J. Powell
Howard H. Morgridge
December 18, 1951

Architect & Engineer
68 Post Street
San Francisco, California
Attn: Mr. Edwin H. Wilder, Editor
Dear Mr. Wilder:

I wish to express my thanks and gratitude to your organization for the very fine article you published on the El Camino College Plant. It is very gratifying to find that the material submitted was used so generously and presented so well.

Sincerely
MARSH, SMITH & POWELL
(Signed) Howard H. Morgridge
Howard H. Morgridge

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JOINT INFORMATION COMMITTEE

AMERICAN INSTITUTE OF ARCHITECTS and THE PRODUCERS COUNCIL, INC.

Through the courtesy of F. Bourn Hayne, A.I.A., we are able to release the minutes of the Meeting of the Joint Information Committee of the A.I.A. and the PRODUCERS' COUNCIL held in New York November 15, 1951. The content of the agenda covering the second question CARD FILE OR LOOSE-LEAF SPECIFICATION SERVICE is particularly comprehensive and with limitations of space considered we are reproducing as much as possible of these minutes.

"The Secretary (Theodore Irving Coo, A.I.A., Secretary) reported the following action taken by the Board of Directors of The Institute at its meeting September 30-October 2: Resolved: That The Joint Committee of the A.I.A. and The Producers' Council at the request of the Board, give further consideration and study to the implementation of this proposed service with a view to the development of more specific recommendations with respect to the same. The Secretary read a telegram received from John Rex, President of the California Council of Architects, A.I.A., recommending, on behalf of the Council, that favorable consideration be given by The Joint Committee to the initiating of a specification service. The Secretary also read a letter received from Francis Joseph McCarthy, President of the Northern California Chapter, A.I.A., urging, on behalf of the Northern California Chapter, similar action by the Joint Committee.

Mr. Silling, A.I.A., called attention to the need for a service of this character, by many architects, particularly the smaller practitioner, and the important part that could be played by The Institute in providing authoritative data and technical information that would enable architects to do a better technical job. The Secretary reported that, pursuant to the suggestion of The Joint Committee that the possibility of effecting a collaboration between The Institute and The Construction Specification Institute, Inc. be explored, an informal meeting had been held between Carl J. Ebert, President, The Construction Specification Institute, Inc., C. M. Mortenson, and The Secretary.

At this meeting Mr. Ebert indicated the CSI was actively interested in the improvement of specifications and would be happy to collaborate with The A.I.A. in the initiating of a comprehensive specification service. It was suggested this might be accomplished through a joint committee of The A.I.A. and The CSI, with Co-Chairmen, similar to The Joint Committee of The A.I.A. and The Producers' Council. Mr. Taylor recalled the Industry Research Service proposed by The Institute and pointed out the development of specification material might serve as a means of pointing out certain areas in which further research might result in the improvement of specification information.

Mr. Hayne was of the opinion the study of specification material sponsored by The Institute by students, trade apprentices, and mechanics would prove of material good public relations value. Mr. Rogers expressed the opinion that if the project is to be successfully initiated it must be approached from a realistic standpoint. He stated that producers are not likely to be interested in providing financial support in the absence of definite information as to anticipated costs. (Tyler S. Rogers, Producers' Council.) He recommended: 1. That steps be taken to determine the probable cost of preparing and publishing the basic specification material. 2. The probable cost of preparing and publishing additional pages or sections. 3. Based on the foregoing the charge to associations for the inclusion of an association's specification.

Following further discussion the following motion was made and unanimously adopted: RESOLVED: That Messrs. Walter A. Taylor, Charles M. Mortenson, Leonard G. Haeger, and Carl J. Ebert, be appointed a Committee to determine the following elements of cost of the proposed specification service: 1. The probable cost of preparing and publishing the basic specification material. 2. The probable cost of preparing and publishing additional pages or sections. 3. A suggested charge to an association for the inclusion and distribution of its specification, on a page or section basis. 4. A suggested charge to an individual producer for the inclusion and distribution of an individual specification, on a page basis.

NOTE: This news space is being contributed by ARCHITECT & ENGINEER Magazine to the JOINT INFORMATION COMMITTEE representing the Northern California Chapter of The American Institute of Architects and the Northern California Chapter of the Producer's Council, Inc., and is available to this Committee for the purpose of bringing to the attention of leaders within the Construction Industry various phases of the Architectural profession and building materials industry procedures for general consideration and comment. Your "ideas" and any suggestions for the better pooling of thoughts along these lines should be sent to "Joint Information Committee, c/o The Architect & Engineer. 68 Post Street, San Francisco," where they will be immediately forwarded to proper committee members.

NEWS and COMMENT ON ART

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, has scheduled the following exhibitions and events for the month of January:

An Exhibition of Pastels by Howard Cook, one of the most widely known of American Printmakers before he gained fame in painting and pastel. Many of the Pastels are of New York and in a representational cubistic manner.

Paintings and Drawings by Gerrie Gutmann, drawn and painted during the past three years.

Oils, Watercolors, Drawings, Etchings and Lithographs by Lovis Corinth, famed European artist whose work has just started to catch the American fancy.

Imaginary Portraits, a group of Paintings by Marcel Vertes which represent childhood portraits of famous persons.

Moroco Photographs by William G. Murray.

Special Events will feature a small exhibition of Children's Art from current classes, which are under the direction of Miriam Lindstrom.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, will start the new year with an exhibit of Wood Forms from the High Sierra's by Cornelia Chase; sculptures by Frances Baxter; and a group of paintings by William Gaskin.

The Pictures of the Month will feature Line and Wash Drawings by John Gorham. Scheduled for February is an exhibit of sculpture by Elah Hale Hays, and paintings by Caroline Martin and Hamilton Wolf.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, will offer the following exhibitions and special events for the month of January:

EXHIBITIONS: Museum Menagerie; Matthew Barnes Memorial Exhibition; Drawings and Watercolors by Hannah Weber-Sachs, Theodore Brenson, and Margo Hoff; Twentieth Century Master Movements—Cubism—Futurism; Continuing the Albert M. Bender Collection; Modern American Color Prints; Permanent and Loan Collections; and Contemporary Textiles.

SPECIAL EVENTS: Concerts will highlight the Griller Quartet; Egon Petri, Pianist; and the Composers' Forum. The Lecture Series will include Contemporary Textiles by Barbara Fitzwilliams; Drawings and Watercolors by Anneliese Hoye; and Cubism—Futurism by Barbara Fitzwilliams, Sunday's at 3:15 p.m.; and the Monday evening Lectures at 8 o'clock will include Twentieth Century Art, The Fauves, The Primitives and Primitive Art, and Cubism.

Gallery Tours are conducted each Sunday at 2:30 under the supervision of Martin Snipper and Joan Quigley.

PORTLAND ART MUSEUM

Thomas C. Colt, Jr., directtor of the Portland Art Museum, West Park and Madison, annnounces the following schedule of exhibits and events for the month of January:

A Chinese head carved in stone and about twice life size recently presented to the Museum by Cornelius Ruxton Love, Jr., of New York. Two prints from the Oregon Print Annual, the work to be designated by a jury, will be added to the Museum's Print Collection.

CALIFORNIA SCHOOL OF FINE ARTS

The Board of Directors of the San Francissco Art Association has announced that James Weeks has been awarded the 1952 Abraham Rosenberg Traveling Fellowship in Art.

Weeks was born in Oakland, studied at the Marian Hartwell Schoof of Design and at the California School of Fine Arts, to which he later returned as a faculty member.

He has exhibited and won recognition in leading Bay Area museums and galleries.

The Jury making the award was composed of Alfred Frankenstein, Ernest Mundt, David Park, Nell Sinton, and Hamilton Wolf, with Karl Kasten serving as Chairman.

SPECIAL HENRI MATISSE EXHIBITION SCHEDULED

A large exhibition of the works of Henri Matisse has been scheduled for special exhibition at the San Francisco Museum of Art from May 21 through July 6.

The showing includes furnishings and decorations; Black line tile murals; stained glass windows; and wrought iron.

Photos by ERNEST BRAUN

GREENBRAE ELEMENTARY SCHOOL

MARIN COUNTY, CALIFORNIA

Architect: WILLIAM CORLETT, A.I.A.

By MARCIA LEE

With the design of this Greenbrae Elementary School in Marin County, California, Architect William Corlett proves that school buildings can have the same attractive "liveability" of residences—at no extra cost.

On the theory that a school is a "home" to children during the major portion of their daytime hours, Mr. Corlett has been guided in his planning by the same considerations that he would apply to the planning of a residence.

The buildings are oriented to take best advantage of the dramatic view of nearby Mount Tamalpais; the character of the buildings is in harmony with the architect-designed homes of the Greenbrae tract which the school serves, and, finally, the form of the buildings and the choice of materials and colors have been dictated by "liveability" rather than adherence to standard "institutional" construction policies.

The warmth and informality of redwood, for example, has been used instead of stucco for all exterior siding except along corridors where maintenance is a problem.

The incorporation of shed roofs, which open to the main sources of light, create low-ceilinged alcoves and give the classrooms a pleasant, informal appearance. And, where possible with respect to economy of structure and the special limitations

of the site, an effect of indoor-outdoor living has been created. All the lower grade classrooms, for example, are served by individually fenced, partially roofed, outdoor classrooms which contain work benches, a sink, storage cabinets and a planting area for children's gardens.

Site Utilization

The seven and one-half acre school site was donated to the School District by the surrounding residential Tract with the deed restriction that no building facility or playground apparatus be placed within 50 feet of any property line. This stipulation eliminated the intended placement of the Multi-Use Building at the Northwest corner of the site but set up the design layout which clearly separates automobile and bus traffic from playground areas.

Kindergarten and lower grade classrooms were placed on a relatively level portion of the site to allow the development of the individually fenced outdoor classrooms. The long dimension (36') of the lower grade classrooms is set at right angles to the thereby reduced length corridor.

Upper grade (24'x32') classrooms were more readily placed on sloping Northeast portion of the site which is unusable as a playground.

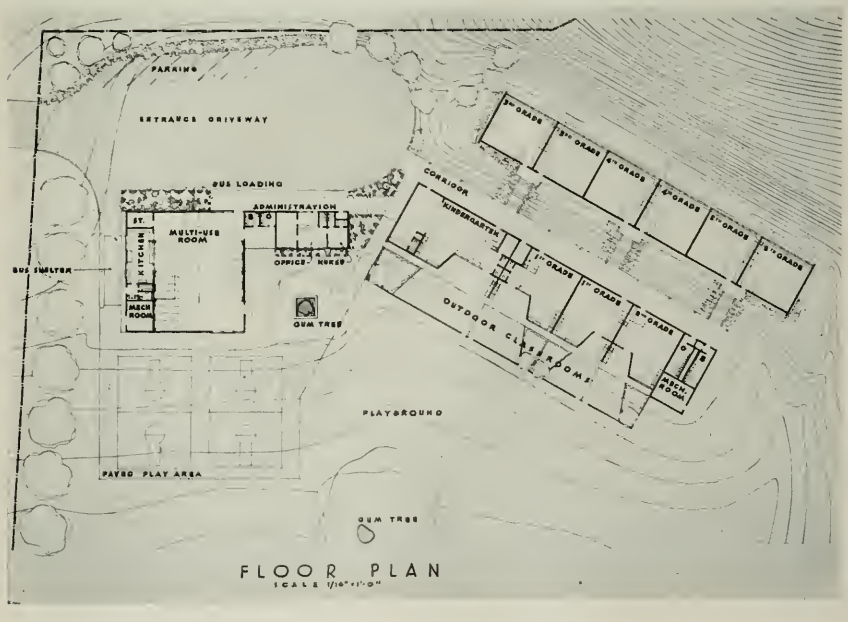
Two existing gum trees were considered in the placement of the building units and the development of an outdoor eating court East of the Multi-Use room.

Structure

The lower grade classroom wing (constructed in 1950) utilizes open Web Steel Joist at 4' 0" ctrs. spanning 36' 0" from 8" WF corridor columns at 12' ctrs. to the South Wall, with the remainder of the frame in wood on concrete footings and radiant-heated concrete slab. (Construction cost $11 per sq. ft.)

The upper grade classroom wing, now under construction, utilizes a 12" WF beam at midspan at the classroom and an 8" WF beam at north and south walls with 2x10 wood joist at 16" ctrs. spanning 12' 0". The remainder of the structure is wood frame on concrete footings, concrete floor slab radiant-heated, ⅜" Plywood wall surfaces and acoustical tile ceilings. Steel sash and vertical Redwood siding on diagonal sheathing, and built-up composition roofing on diagonal sheathing complete the structure.

The Administration Building utilizes 4" x 12" exposed wood ceiling joist at 4' 0" ctrs. Wood frame, plywood interior walls, acoustical tile seilings,



FLOOR PLAN

SCALE 1/16"=1'-0"

vertical redwood exterior siding, and steel sash, complete the structure.

The Multi-Use room utilizes laminated wood arches at 16' 0" ctrs. spanning 50' 0", and 6" x 10" purlins at 6' 0" sheathed with 2" x 6" T & G straight layed. Exterior is vertical redwood siding and interiors wood frame ⅜" Plywood. Built-up composition roof with special surfacing is opened to light with a 12' x 50' Heat Reducing glass skylight. Other features: concrete slab; Asphalt Tile; warm air heat supplies in space above kitchen. Cold air returns are located in the East wall.

Of Special Interest

The Six-Classroom, Administration, Multi-Use room and Kitchen addition abandoned the use of Open Web Steel joist as roof framing because of the uncertain availability of steel. To comply with N. P. A. restrictions, steel in the new addition was limited to 22 tons. The Multi-Use room's laminated wood arches, although slightly more expensive than steel (per arch) proved simpler to tie into the roof membrane and are immediately available on a competitive bidding basis. (Cost quotation per arch, $1500.)

Interior Treatment

The kindergarten and lower grade classrooms incorporate the use of low ceilinged (7'-0") activity alcoves. The alcove roof overhang (4'-0") controls south light as well as providing covered adjacent area for the outdoor classrooms.

All classrooms are lighted by concentric-ring incandescent fixtures.

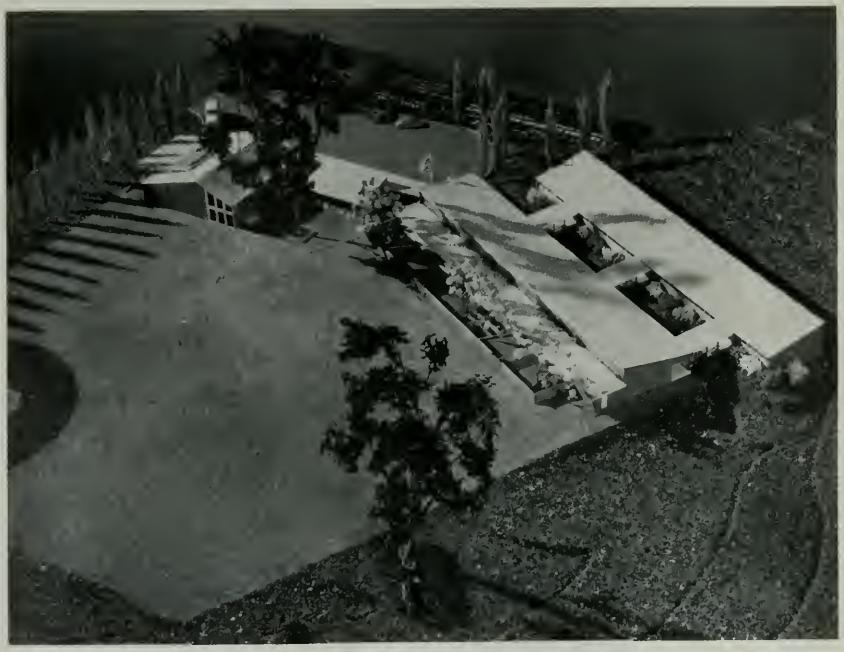
The 50' x 64' Multi-Use room contains 10 cafeteria tables with benches which fold into wall recesses when the room is used as an auditorium or for folk dancing. A 10' x 16' folding platform 18" high may be set up at the north end of the room. Storage is provided for chairs. The Kitchen will serve 350 meals cafeteria style, and the room itself will seat 350 for simple stage presentations or musical programs.

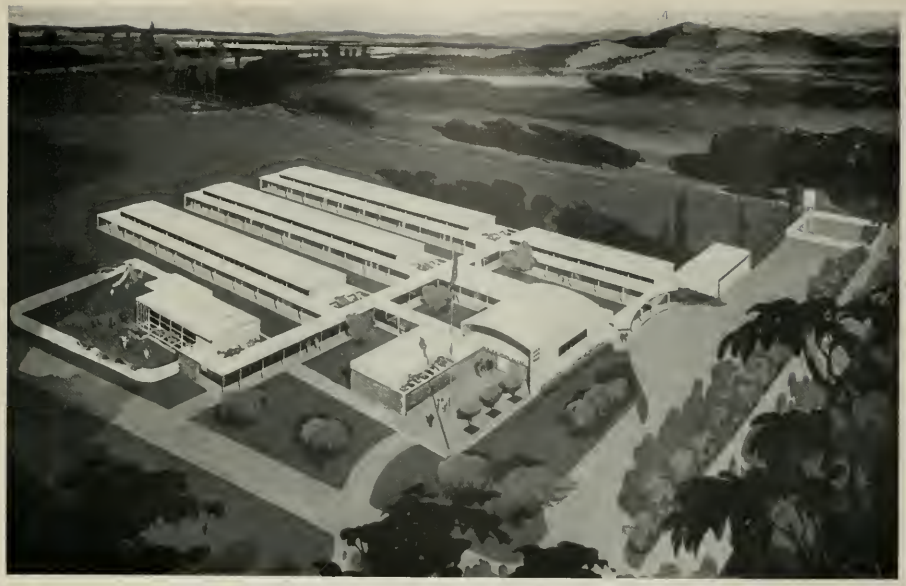
Classroom interior walls are stain waxed plywood, an easy-to-clean, durable, and attractive surface. Work counters and storage cabinets vary in bright color. Chalkboards are coral color.

A 10' x 50' skylight glazed with heat and glare reducing glass toplights the Multi-Use room. End wall floor to ceiling windows look out on Mt. Tamalpais.

Construction Cost

Current construction costs indicate that the new units will run about $14 per square foot including site utilities, paving and fencing.





ARCHITECTURAL RENDERING OF TOTAL DEVELOPMENT

SEQUOIA UNION SCHOOL

LEMON COVE, CALIFORNIA

Architects: ALLISON AND RIBLE

Associate Architects: ARTHUR KELLEY & JOSEPH P. KELLY

The site of this planned school development is about one mile southwest of the town of Lemon Cove in Tulare county, and being a Union School it serves a wide, rapidly expanding, rural community.

The presently completed Units include the kindergarten and two wings of standard classrooms, with one classroom temporarily being used to house the administrative facilities. Also included in this first Unit is the central heating plant.

The general construction makes use of 8-inch pipe columns at 16-ft. o.c. set in individual caissons and which not only support steel roof trusses but also individually assume full seismic resistance so that all walls, both interior and exterior, are merely curtains to enclose the spaces.

The wide expanse of glass in classrooms occurs along the north side. An equal amount of glass area occurs on the South side, approximately one-third of which is under the covered passage and two-thirds of which is above the covered passage. As shown in the photograph on page 14, full entry of sunlight is allowed in the classrooms and is controlled only, but fully, at the classroom ceiling.

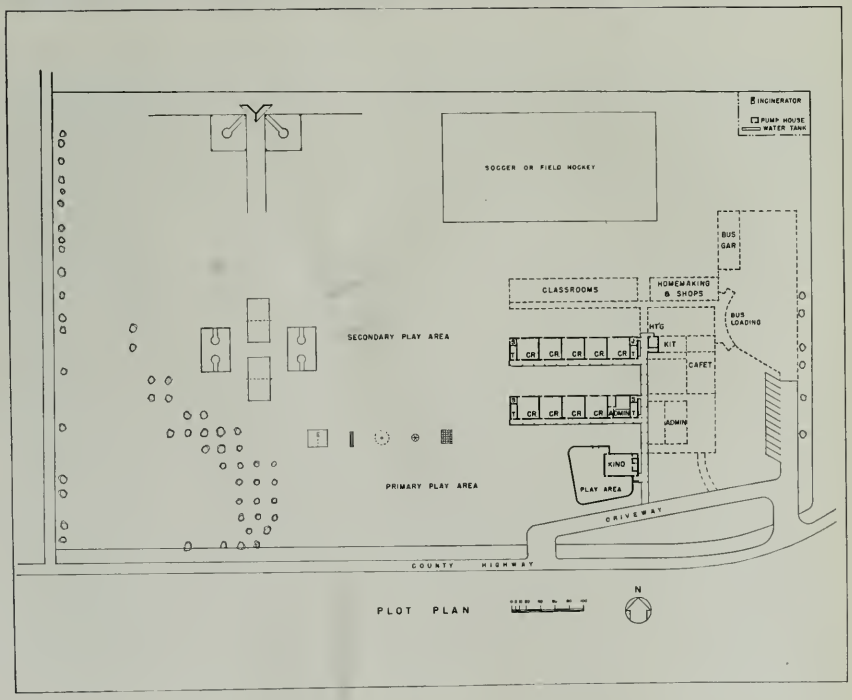
In the future, and as funds become available, it is contemplated to build one wing of standard classrooms, a homemaking and shops facility, a cafetorium with kitchen, administrative wing and facilities for bus loading and storage.

REAR WALL

Of typical classroom showing the method of controlling south sunlight.

BELOW

Plot plan showing the ultimate of present planned development.



A MODERN

Kindergarten looking to the narth, showing large windows on either side, acoustical tile ceiling, lighting fixtures and some utilities.

BELOW

Details of the temporary main entrance at kindergarten.

Photos by JIM LUSK

OUTSTANDING CERAMIC VENEER INSTALLATION by GLADDING, McBEAN & COMPANY

MODERN SHOW PLACE

VETERANS' HOSPITAL

UNITED STATES VETERANS' ADMINISTRATION

SEATTLE, WASHINGTON

Architects: NARAMORE, BAIN, BRADY & JOHANSON

Contractor: SOUND CONSTRUCTION CO.

By ARTHUR W. PRIAULX

First view of the spectacular $8,000,000 Veterans Administration Hospital atop Beacon Hill in Seattle is breath-taking.

Here Architects Naramore, Bain, Brady and Johanson have achieved beauty, symmetry and utility as they have effectively taken advantage of commanding height and coupled it with imaginative design.

Given complete freedom by the Veterans Administration they departed from conventional X, Y, H and T shaped structures and adopted a simple, straight-line plan. In this uncomplicated floor plan they have eliminated inside spaces and lost space. Every room looks out upon beautiful surroundings and not into some other part of the structure as in other types of structures.

It was determined that two nursing units per floor would accommodate the patients' needs, so this fact recommended the straight-line design as practical and desirable.

In order to open all rooms to light, air and view the designers used a continuous window plan. To achieve the continuous window the architects set the columns in with the spandrel beam hung far enough out to allow for a horizontal pipe space between column and wall. This allows for hot water heating distribution without vertical piping to interrupt the continuous windows.

The over hang of the continuous windows provides shade for patients. These concrete window canopies on the south wall also point up the beauty of the structure and give an attractive illusion of depth.

The plan of the typical nursing unit is a straight line plan with the single rooms at the end. This is different from most Veterans Administration plans where the single rooms are usually in one wing and a 16-bed ward in another wing. In the Seattle hospital the wards have been broken down to 2- to 8-bed wards, eliminating the old, depressing 16-bed facilities. Half-height partitions divide the 8-bed wards into four sections which give patients considerable privacy.

The lines of the main slab structure were preserved by putting the single rooms at the ends of the building.

As far as the plan of the building is concerned, it is fairly obvious. The main entrance, outpatient entrance and the ambulance entrance are all accessible from one public approach. Every entrance is a grade level entry without steps. All vehicular traffic is kept to the north of the building with the southeast side free for patient use.

The structure is reinforced concrete with Ceramic Veneer exterior, and is designed for earthquake resistance of ten per cent of the dead load. Projecting parts from the main building are separated by two-inch crumble joint. Main building has been cut into three parts to provide for expansion and contraction.

Structure is heated by hot water mains which

Photos by ART FORDE & FRED CARTER

SOUTH SIDE

Showing effect of the overhand concrete canopies, making continuous windows possible.

Ceramic Veneer installation by Gladding, McBean & Company.

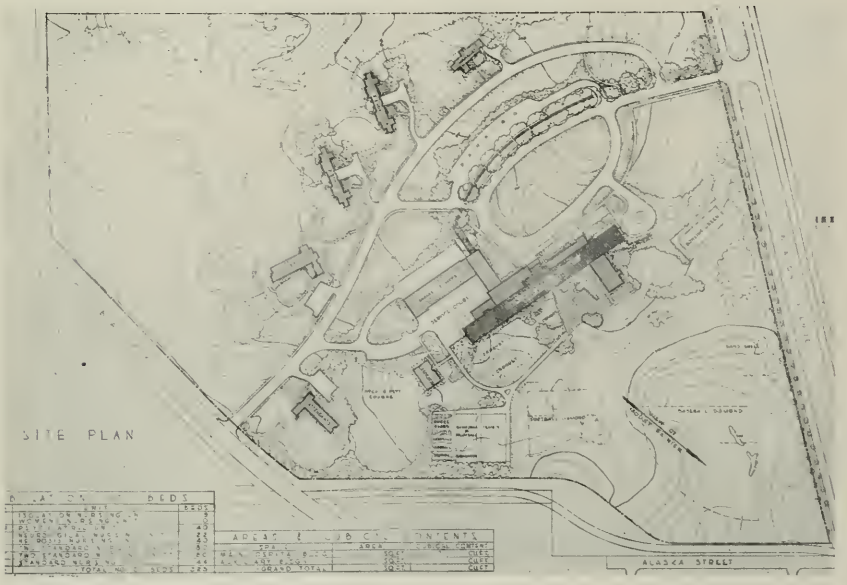
VETERANS' HOSPITAL . . .

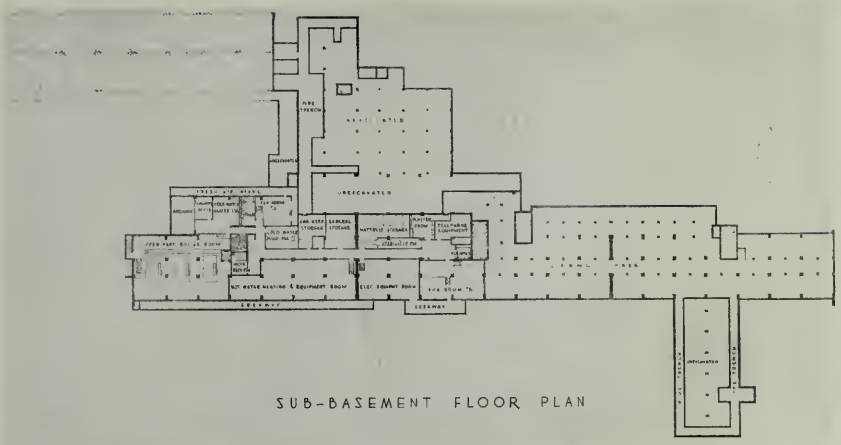
ABOVE—Typical private room in this ultra scientific and practical building, shawing cheerful view fram the window and some of the madern facilities at the patient's disposal.

BELOW—Main entrance af the huge building is lacated at the graund level ta facilitate ease in the mavement of patients. The entrance apens from convenient driveway into friendly labby and spacious waiting room.

ABOVE—View of one of the many private rooms showing placement of numerous auxiliary items for the convenience and pleasure of the patient. All rooms throughout the hospital have been designed for cleanliness and a minimum of maintenance requirements.

BELOW—Site Plan of the Hospital Building and adjacent grounds, showing parking, service court, residential, and recreational areas. Plan also shows roadways and paths serving the grounds.





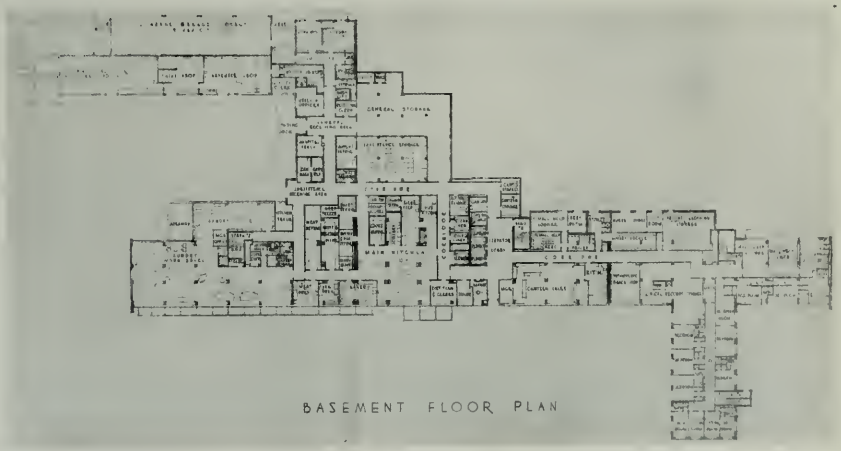
SUB-BASEMENT PLAN—Area contains engine and boiler room, utilities.

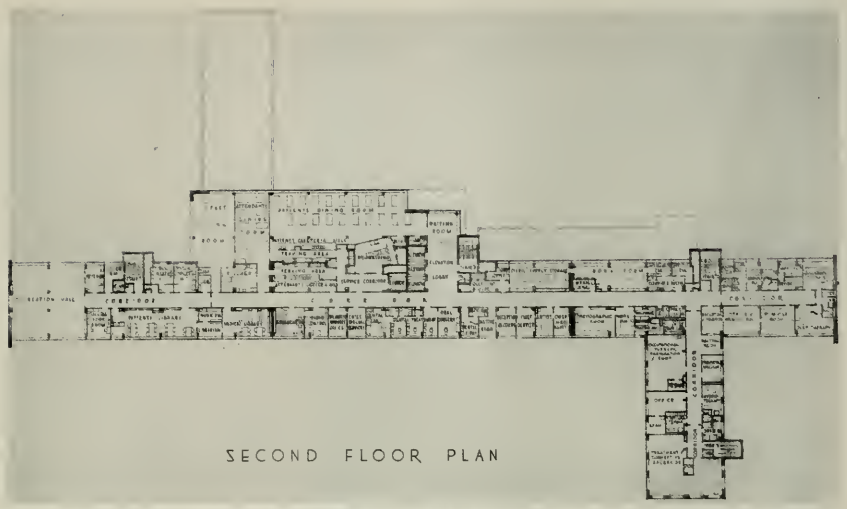
run horizontally at each floor and which upfeed to convectors. Mains are enclosed in space above the suspended ceiling between a spandrel beam and the outside building wall. Copper tubing connections are used at convectors for flexibility.

The building with several adjoining smaller auxiliary structures for nurses, attendants, garages, laboratory and athletic facilities cover a sweeping 43 acres. Since it is located on one of Seattle's highest hills, water supply pressure must be pumped to a pent-house-located, water-storage tank. Fire protection water is provided in this storage as well as water for other purposes. Pressure tanks are used for augmenting pressure obtained by hydrostatic head.

Operating rooms are air conditioned and cooling is by means of direct expansion coils. Humidification is by grid-type humidifier in supply ducts.

BASEMENT FLOOR PLAN—Garages, shops, laundry, and personnel facilities.





SECOND FLOOR PLAN—General plan is carried throughout upper floors.

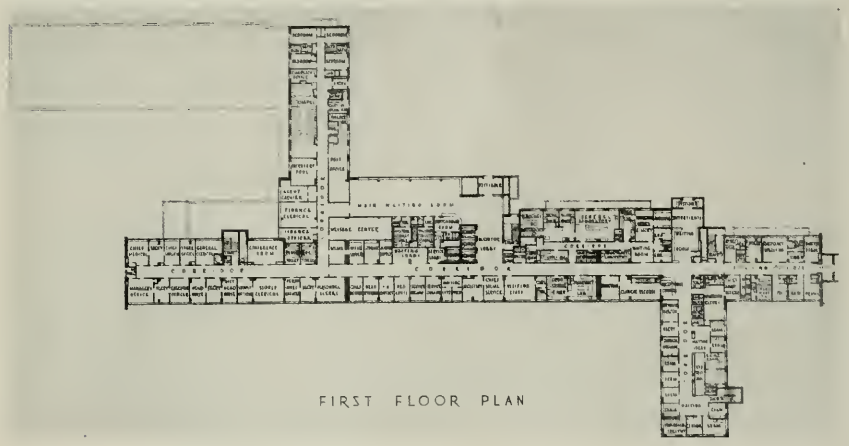
Supply duct reheat is electric, utilizing low-sheath temperature strip heaters, operated from a step controller, controlled by room thermostat.

Boiler plant is equipped with a complete set of steam-operated auxiliaries to prevent any cessation of heating equipment in case of electric power failure. Water supply in building is also from two sources of city water to assure continuous service.

Heating in the psycho sections of the building are by means of radiant heat panels in the floors and walls, using copper tubing imbedded therein.

Radio system is provided complete to each bedside, with provisions at each bedside for either pillow or stethoscope type listening speaker. Each speaker may connect by local selection to any of four channels.

FIRST FLOOR PLAN—General offices, admittance, laboratories, conference.



LEFT — Radio Room where patients may have their own programs or receive programs from four network channels, is typical of the many specialty rooms where specific jobs are done for the patients' enjoyment and therapy.

BELOW—The Main Lobby of the hospital carries out the theme of informality and comfort.

RIGHT—Public Rooms like this library, are homey and inviting. Patient comfort is the watchword in every feature of this madern miracle building.

BELOW—Veteran guests may see television shows in this lounge raom where they are made to feel at home. Continuous windows give spectacular view of surrounding cauntry from almast every room.

A feature of the dividing partitions in the wards is a flush wall cabinet which opens into either side of the ward and which carries pressure piped oxygen and other similar facilities. Each patient also has a private utility panel in the wall at his bed head which contains outlets for electric lights, telephone, radio and nurses' signals.

Patient comfort is the dominant principle back of all features in this amazing building. Every care has also been taken in room design to insure maximum efficiency of the nurses and doctors without undue and needless exertion. There is a friendly, homey touch about the public rooms where ambulant patients spend much of their time. The atmosphere of this remarkable building which contains 325 beds departs a long ways from the institution air faund in so many buildings where such services are housed. The pace of the hospital is one of cheerfulness. Even snow-capped Mt. Rainier to the southwest has a friendly look from those spacious-windowed rooms.

Gross area of the large 11 level structure is 255;000 square feet. This includes the eight regular floors in the building, the pent house and the basement and sub-basement.

The sub-basement contains the heating plant

and the electrical control machinery. The basement for all practical purposes is a full scale floor and contains such facilities as laundries, kitchens, paint shops. The first floor is largely given over to staff offices, examination rooms, offices, chapel and receiving rooms.

The second floor is a specialty service room for the patients containing dining rooms, libraries, exercise rooms and a variety of treatment rooms and offices for specialists working with patients.

Third, fourth and fifth floors are devoted to general nursing and contain single rooms and wards. Surgical service and operating rooms are on the third floor. The sixth floor is given over to treatment of neurotic patients and the seventh floor is for quiet section and disturbed section. Here windows are guarded to prevent accidents. Roof gardens and solarium sections are on the seventh floor. Eighth floor is used as a women's nursing unit and an isolation nursing unit.

The unit cost of the 325-bed structure is $18,699.-45 per bed based on the original contract price of $6,077,320. Architecting and engineering on this most modern veterans hospital on the Pacific Coast was all handled by Naramore, Bain, Brady & Johanson, Architects of Seattle. General contracting was by Sound Construction Company, Seattle.

Probably one of the reasons why the Seattle Veterans Administration Hospital is so workable as well as handsome is that the architects had a great deal of flexibility and freedom from regulations which have since been adopted by the government's veterans' bureau.

SUGGESTIONS FOR PLUMBING CONTRACTS

ADVOCATED BY NATIONAL PLUMBING BUREAU

Are you building a new house or modernizing the plumbing in an existing house or other building?

The Plumbing and Heating Industries Bureau lists some of the points that should be covered in your contract with the plumbing contractor:

1. A legal contract form suitable for the purpose should be selected and signed by the owner and plumbing contractor.

2. Before the contract is signed, the plumbing contractor should submit proof that he carries compensation and public liability insurance. If he does not, the home builder could be sued in the event of injury to a workman or someone else who happened to be on the premises. At the discretion of the owner, the contract may also provide for fire insurance and such other protection as the owner may feel necessary. The owner for instance, may want a contractor's bond guaranteeing performance and materials for one year.

3. The terms of the contract should call for all work to be done in accordance with an approved set of plans and specifications. On small remodeling jobs, these might be furnished for the approval of the owner by the plumbing contractor.

4. The plan should show the location of all plumbing fixtures, equipment, etc. The plan should also show the location and size of piping for sewers, soil stacks, vents, wastes, and water suppliers. In larger operations, there is usually a provision in the specifications that, upon completion of the work, any changes from locations shown on original plans shall be indicated upon a revised set of drawings furnished by the plumbing contractor. Such a plan or drawing of the plumbing system is very helpful if it is necessary for a different plumbing contractor to make changes or additions to the system in the future.

5. The specifications should set forth the kind, type, and quality of materials to be used for the various kinds of work. If all new materials are to be used, this fact should be specified.

6. One of the points frequently covered in the specifications, particularly for larger houses, is that the plumbing contractor will prepare a valve chart indicating the location and purpose of every valve in the plumbing system. In addition, each valve should have a label or tag explaining its purpose.

7. After the work has been completed, the plumbing contractor should be able to offer proof that he has complied with the local plumbing code. This proof should be in the form of a certificate of inspection from the plumbing inspection department. The bill should not be submitted until the installation has been approved by the plumbing inspector and the contractor can submit proof of this fact.

8. The contract should also provide for the meth-

od of payment. The contractor should be required to furnish the owner with a waiver of lien to insure that all labor and materials supplied by the contractor have been paid in full.

9. The best assurance of a trouble-free plumbing installation is to get bid only from reputable plumbing contractors.

JOINS ARCHITECTURAL FIRM

Arthur D. Janssen, A.I.A., Architect and William H. Daseking, A.I.A., Architect, have announced the association of Walter L. Keller, Architect in the general practice of architecture, Menlo Park, Calif.

Architect Keller has been with the California Division of Architecture in Sacramento.

CONSTRUCTION ECONOMICS

HOW TO LOWER THE PRICE OF CONSTRUCTION

By G. SZMAK, Executive Secretary
Construction Surveyors Institute

Those in the Construction Industry should analyze the reason for its progress and prosperity or else must of necessity periodically investigate the causes of obstructing demand. This Industry, like others, is indirectly afflicted by external political conditions and malpractices. Directly it is affected by its own surveying, designing and constructing practices and operations. Naturally, to hold the market for construction, this Industry must also consider production costs and selling prices. Therefore, when there is a shortage of buyers, "How to lower the price of construction?" is a paramount issue.

Basically, the reason for a depressed demand for goods, commodities and services is the lack of consumer purchasing power due to maldistribution of compensation caused by short-circuiting the products through low wages, usurious interest charges and confiscatory taxation. However, since the correlation of production and distribution costs with consumption prices is not possible under political controls, regulations and malpractices, the only alternative for increasing the buying power is to reduce prices by all possible means. Lower prices do create some demand providing a spasmodic prosperity.

During periods of deflation, the tendency is to drop prices lower and lower. This is generally achieved by reducing the quality of production and thus decreasing currency circulation. Consequently, the standard of living is also lowered and the capital needed for providing abundance and prosperity is not enough. While during periods of inflation, even though construction costs are high, practically no effort is made toward economy in surveying, designing, constructing and in administering bids and prosecuting contracts. Rather, the practice is to carelessly pass on the higher costs to the consumer. Drawings and specifications are prepared without considering the cost of materials and labor incorporated in the design and construction. It becomes the vogue to award loose Cost-Plus-Fee and Lump-Sum Contracts without pre-established unit prices that would limit the cost.

The constructors, of course, cannot build economically when projects are wastefully planned, specified and loosely awarded. Likewise, designers cannot prepare economic bidding and contract documents without proper preliminary Assays, Estimates, Quantity Analyses and Appraisals of the contemplated projects. Unless the designers have advance knowledge of construction costs, they cannot control the economy of their designs. Such information and data is provided by expert professional Construction Surveyors and is available to Architects, Engineers, Contractors and the public. Advance knowledge on detailed cost of a project will result in lower prices and prevent expensive dissensions and delays.

Those outside of the Industry are usually under the impression that designers and constructors are also surveyors. This leads them into making the error of overlooking the surveyors' services. The surveyors' skill, technology and economic knowledge, so essential for preparing a systematic analysis and appraisal of a project, is very different from the planning and executive skill and technology possessed by designers and constructors. It is obvious that three different experts would not be required if one could perform all three functions just as proficiently and ecomonically.

Effective price competition is needed. There is a false competition when the bidders are only furnished plans and specifications from which they must each determine for themselves the quantity and quality of work to be done. Such competition is, in effect, one of quantity and quality, which nullifies the competition in price. Without furnishing a uniform purchase requisition to all the bidders, there cannot be true price competition or a sound basis for judging the most economical bid. Furthermore, bidding without a scientific purchase requi-

(See Page 32)

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SAN DIEGO CHAPTER

Norman Kelch, A.I.A. Architect described the latest developments in grouted brick masonry and also presented a motion picture showing some of the best brick masonry buildings in southern California, at the December meeting held in the U. S. Grant Hotel.

A special report by Delmar S. Mitchell's committee indicated it was advisable to have ample sets of prints available prior to bidding and that unusual costs should be met by the owner. Study is also being made on the subject of signs being used by architects to advertise their business.

The annual Christmas Party was observed on December 28 with Dick Pinnell in charge of an unusually succcessful event.

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GOLD MEDAL AWARD TO FRENCH ARCHITECT

The Gold Medal of The American Institute of Architects, its highest professional honor, will be awarded in 1952 to Auguste Perret, a French architect, according to Glenn Stanton, Institute president, and Portland, Oregon, architect.

The award will be made in person during the annual convention of the A.I.A. in New York City, next June, and is made in recognition of Perret's design of buildings in reinforced concrete.

ION LEWIS TRAVELING SCHOLARSHIP FOR 1952

The Managing Committee of the Ion Lewis Scholarship in Architecture has announced it will make an award of $1000 to an eligible candidate during the Spring of 1952.

The Scholarship, founded under the will of the late Ion Lewis, pioneer Portland architect, is to be used toward the advancement of the profession of Architecture in Oregon. It is administered jointly by the School of Architecture and Allied Arts of the University of Oregon and the Oregon Chapter of the American Institute of Architects.

The basis of the award to be made this year will include character, ability and professional

Nevada Chapter:
George L. F. O'Brien, President; Aloysius McDonald, Vice-President; Graham Erskine, Secretary; Edward S. Parsons, Treasurer. Offices 160 Chestnut St., Reno.

Nevada State Board of Architects:
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Santa Barbara Chapter (California):
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Washington State Chapter:
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Tacoma Society:
E. N. Dugan, President; P. G. Ball, Vice-President; Lyle Swedberg, Secretary-Treasurer.

Hawaii Chapter:
James C. Simms, President; Alfred Preis, Secretary, 1507 Kapiolani Blvd., Honolulu, T. H.

CALIFORNIA COUNCIL OF ARCHITECTS
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ALLIED ARCHITECTURAL ORGANIZATIONS

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Producers' Council—Southern California Chapter:
Harold F. Smith, President, Gladding, McBean & Co.; Bert Taylor, Vice-Pres., Pittsburgh Plate Glass Co.; Richard Seaman, Sec., W. P. Fuller Co.; Clay Snider, Treas., Minneapolis-Honeywell.

Producers' Council—Northern California Chapter (See Special Page)

promise, together with the candidates need for travel. Candidates must be under 30 years of age; a resident of the State of Oregon for at least one year; and must be an architectural student or draftsman. Applicants may obtain complete information by writing Dean S. W. Little, School of Architecture and Allied Arts, University of Oregon, not later than April 1, 1952. The award will be made on or before May 1, 1952.

JEANNETTE DOLSBERRY HONORED BY ARCHITECTS

Mrs. Jeannette Dolsberry, for 25 years executive secretary of the California State Board of Architectural Examiners, was honored recently by architects of California and the State Board at an honorary dinner at Arrowhead Springs Hotel.

President C. J. Paderewski of the Board presented Mrs. Dolsberry, who retired from her position in 1951, with a 25 year Certificate of Faithful Service signed by Governor Earl Warren and James A. Arnerich, State Director of Professional and Vocational Standards, and a set of matched luggage, gifts, and $550, all contributions to a "tribute fund" developed by her many friends among the architects and architectural profession.

CENTRAL WASHINGTON ARCHITECTURAL SOCIETY

Ernest Greenwood, addressed the Central Washington Architectural Society, Yakima, on the subject "Designing a Building to Reduce Fire Hazards and Insurance Rates." Discussion included use of fire walls, fire doors, occupancy separation, and sprinkler systems.

ARCHITECT INSTRUCTS

Architect Ron Wilson, Seattle, is instructing a class in "Basic Design" at the evening classes of the University of Washington. Also offered at the night school is a class in advanced research.

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WITH THE ENGINEERS

Structural Engineers Association of California
Donald F. Shugart, President; Walter A. Buehler, Vice-President; Lewis K. Osborn, Sec.-Treas.; Office c/o Kistner, Curtis & Wright, Room 203 Architects Bldg., Los Angeles. Directors Arthur W. Anderson, John E. Rinne, Henry J. Degenkolb, Lewis K. Osborn, Ernest C. Hillman, Jr., R. W. Binder, Donald F. Shugart, Walter A. Buehler, and G. E. Goodall.

Structural Engineers Association of Northern California
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American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

HAROLD KING ELECTED PRESIDENT SOUTHERN CALIFORNIA ENGINEERS

Harold King, consulting structural engineer of Los Angeles, was elected President of the Structural Engineers Association of Southern California for the year 1952 at the organization's annual meeting in December.

Coming to California in 1931 from Pittsburgh, Penn., where he was associated with the McClintic Marshall Company following graduation from Iowa State College with an Architectural Engineering Degree, King was associated with L. M. Barcume until 1942 when he served in the Navy Civil Engineer Corps. On his return from two years oversea service, King opened offices in Los Angeles for the practice of consulting structural engineer.

NEW OFFICERS: Seated, left to right, Harold King, President; C. M. Corbit, Jr., Secretary-Treasurer. Rear, left to right, Ben Benioff, Vice-President and retiring director; Donald F. Shugart, immediate past president and newly elected president of the Structural Engineers Association of California; and Robert J. Short, retiring Secretary-Treasurer.

Other officers elected to serve during the ensuing year were: Ben Benioff, structural engineer, Summerbell Roof Structures, Vice-President; and Charles M. Corbit, Jr., district engineer, American Institute of Steel Construction, Secretary and Treasurer. Two new directors were chosen, Joseph Sheffet and Henry Layne, consulting engineers, replacing directors John K. Minasian and Ben Benioff.

Retiring president Donald Shugart reviewed efforts of the Association during the past year towards construction improvements, and Robert J. Short, retiring secretary, gave a closing financial report as part of the business meeting.

Guest speaker for the meeting was Vagtborg, Vagtborg Lift-Slab Corpn., who explained with the aid of motion pictures, the engineering and mechanics of lifting floor and roof slabs 150 ft. x 50 ft. in area to roof and upper floor and roof steel

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Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Capt. Cushing Phillips, CEC, USN, President; Col. W. C. Baker, Jr., CE, USA, Vice President; Robert P. Cook, Secretary; Levant Brown, Treasurer. Directors: Rear Admiral L. N. Moeller, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bently; Prof. Harmer E. Davis; Lieut. Col. James D. Strong, CE, USA; and Lieut. Col. Henry M. Smalley, CE, USA.

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while on ground and then lifting to position. The new Temple Isaiah was pointed out as an outstanding example of a new building using the Lift-Slab methods.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

Paint and painting was the general theme of the December meeting with W. R. Bowman, production manager of the National Lead Company speaking on the subject "Fundamentals of Paint Manufacture," and Dr. L. A. O'Leary, head of the Chemical Engineering and Research Department of the W. P. Fuller Company speaking on "Recent Progress in Development of Paints."

The talks were well illustrated with a number of slides and newest trends in the paint industry were pictured as well as described.

LOS ANGELES CHAPTER AMERICAN SOCIETY OF CIVIL ENGINEERS

Life memberships were presented to fifteen members of the Los Angeles section of the American Society of Civil Engineers at a recent meeting in the Alexandria Hotel.

Inaugurating the society's centennial year the life memberships were awarded to Francis Bates, Charles Arthur Bissell, George K. Farmer, Julian Hinds, Harry A. Hyman, Edwin A. Ingham, William D. Jones, Thomas A. Jordan, Claude L. McKesson, George F. Nicholson, Harold K. Palmer, Charles W. S. Sammelman, Charles C. Sharpenberg, Arthur Taylor and Leroy Whitney Armstrong.

Included in the evening's program was a discussion of "Structural Design for Earthquakes" by Robert J. Kadow, George E. Brandow and M. J. Skinner.

BIG JOB AHEAD FOR ARCHITECTS AND ENGINEERS IN CONSTRUCTION

A recent conference on "Laboratory Design for Handling Radioactive Materials", conducted by the Building Research Advisory Board in Washington, brought out the fact that there will be an increasing demand for the construction of buildings specifically intended to house the many phases of atomic energy work. The rapid expansion of radio isotope usage for agricultural, industrial and medical purposes has created a need for establishing design criteria for such buildings; and this Conference, jointly sponsored by the American Institute of Architects and the Atomic Energy Commission, was a large step in the direction of acquainting architects and engineers in general with the specialized problems in this type of construction.

(See Page 31)

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PRODUCER'S COUNCIL PAGE

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Edited by Carl B. Frank, DETROIT STEEL PRODUCTS CO.

NATIONAL PRESIDENT TO VISIT SAN FRANCISCO CHAPTER

Naughton Lane, president of the National Producer's Council, will pay us a visit on Friday, February 1st, during his annual visit to the West Coast. It is our intention to hold an evening meeting for Naughton to hear what I am sure will be a very interesting talk. I've heard rumors that this might possibly turn into a husband and wife meeting and, therefore, suggest that you folks watch the local papers for the final announcement of this meeting.

REGULAR CHAPTER MEETINGS

As mentioned in one of our previous Architect and Engineer pages, a full schedule of informational meetings is planned for the 1952 year. These meetings will start off with Panel No. 4, entitled "Classroom Daylighting," which will be shown on Monday, January 21st at the Palace Hotel. These panels are reportedly quite interesting and are sponsored by the Home Office of several of the member companies of the Council. The panels are then moved throughout the chapters in the country, and the programs presented in full to the members of each of these local chapters. We are looking forward to a big attendance for this meeting as we feel that it will be something special and worthwhile seeing.

A second informational meeting of the year will be sponsored by Johns-Manville and held on February 11th. This meeting also undoubtedly will be held at the Palace Hotel, our regular meeting place.

HOLIDAY LULL

Just as with everyone else at this time of year, our chapter members and activities have bogged down due to the Holidays. We're all suffering from a case of over-indulgence of one sort or another and, therefore, the local news at this time is a bit scarce. We will be back next month, however, with a full page on what's doing with who and how come.

USE QUALITY PRODUCTS — CONSULT AN ARCHITECT

BIG JOB FOR ARCHITECTS

(From Page 29)

Much of the information disclosed at the Symposium had been of the classified nature prior to the meeting, and the AEC, well aware that the use of radioactive materials is spreading rapidly beyond the confines of its own sites, de-classified a large body of knowledge for use at this Conference.

In five intensive sessions, over a two-day period, the speakers illuminated the problems of laboratory layout and construction, shielding, surfaces and finishes, air supply and exhaust, and waste disposal. Flexibility of design was stressed heavily, with a number of speakers mentioning the advantages of modular design in such buildings. Standardization of both design and equipment was pointed out as not only desirable economically but more feasible than the many levels and varieties of this work seem to suggest.

Two somewhat differing but basic philosophies apparently lay behind most of the thinking of the Conference: the dilute, disperse and decontaminate philosophy (DDD), and a system in which the material is controlled and contained at its source, or the concentrate and contain philosophy (CC). Each of these systems demand a different approach to laboratory construction, and the determination of which is better seems to rest on the particular needs and resources of individual installations.

COURSE IN CONCRETE TECHNOLOGY BEING GIVEN IN SOUTHERN CALIF.

The University of California Extension, through its engineering division on the Los Angeles campus is presenting a special series of courses in concrete technology.

An outgrowth of a conference in practical concrete problems organized by the university in San Diego last fall, the instruction program calls for special classes in Los Angeles, San Diego, Rialto and Ventura.

The course in fundamentals of concrete is being given by Samuel Hobbs, field engineer with the Portland Cement Association as instructor.

STEEL AUTHORIZED FOR AIR LINE BASE

A permit has been authorized by the C. A. A. for steel to be used in the construction of new buildings at the United Air Lines maintenance base at San Francisco Municipal Airport.

Construction amounting to more than $1,100,000 will include a new hangar building, engine overhaul shop, and an addition to a warehouse building.

H. J. Brunnier of San Francisco is the Structural Engineer for the work.

COLUMBIA STEEL AND GENEVA STEEL MERGE

A further step in simplifying the corporate structure of United States Steel was effected recently with merger of the Columbia Steel Company in California and Geneva Steel Company in Utah, to be known as Columbia-Geneva Steel Division of U. S. Steel.

Alden G. Roach will serve as president. He also serves as president of Consolidated Western Steel Corp.

In announcing the reorganization, Irving S. Olds, Chairman of the Board, U. S. Steel Copr., said the effort was designed to constitute another step in the continual process of keeping U. S. Steel as up-to-date as possible in all phases of its organization and operations. Such a program tends to reduce costs, facilitate and improve production, and will eventually benefit employees, customers and the public generally.

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CONSTRUCTION ECONOMICS

(From Page 25)

sition creates an enormously wasteful duplication of surveys in addition to neglecting the main objective of competition, namely, securing economical bids.

Naturally, the most efficient and effective solution for solving the stability, progress and prosperity of all industries would be the economic correlation of production and distribution costs with the price of consumption. This can be achieved only by simultaneously increasing the quantity and improving the quality of production through a more equitable distribution of wealth. In the absence of a sound over-all basic economy, the following recommendations are made for reducing construction prices and preventing further inflation.

1. Abolish the increasing usurpation of political authority and power, in the guise of national emergency, now enslaving capital, labor and management and thereby eliminate the wasteful interference of bureaus and agencies with the operation of private enterprises. It is not the function of social governments to finance and build in competition with private enterprise. Public projects are usually constructed without cost limitation and tax free at public expense, thereby doubly inflating construction prices.

2. Formulate and establish more uniform building codes without wasteful outmoded structural requirements. Incorporate maximum safety and protection against the elements and other hazards.

3. Provide open bidding and free competition in materials and labor by abolishing monopoly in both fields. Economic methods in securing bids and awarding contracts should be made available to the buyer. This will increase the effectiveness of price competition. Wasteful Lump-Sum and Cost-Plus-Fee Contracts should be abandoned and replaced by Unit Price Contracts that secure maximum competition and economy. The unit price method allows flexibility for modifications with positive cost control.

4. Establish better coordination of functions and cooperation between surveyors, designers and constructors to improve construction methods and practices.

5. Provide better correlated plans and specifications. Eliminate unessential alternates and separate estimates. If alternate estimates are absolutely necessary, they should be additions to the main bid rather than deductions which do not allow full credit.

6. Institute direct consumer to producer buying and selling without the useless intermediate agencies that infest industry. Through the use of scientific purchase requisitions, construction materials and labor may be bought from the producers at more economical prices.

7. Consult a professional surveyor first to avoid wasteful design and construction. Prevention is more economical than cure.

Construction experts claim that a 20 to 40 per cent reduction can be made in the cost of construction through elimination of prevailing material and labor wastes. By abolishing the tenfold duplication of surveys prepared by bidders, a professional survey solves the shortage of proficient estimators, analysts and appraisers and will reduce costs at least 10 per cent. This is the largest single price reduction available which also increases quantity and improves quality of construction.

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LOS ANGELES ANTICIPATES SUBDIVISION EXPANSION

Leo Strecker, president of the Engineers and Surveyors Association of California, predicted at the organization's annual meeting in Los Angeles recently, that the subdivision of Los Angeles County land, including cities and unincorporated areas, will reach over 19,000 acres, or approximately 60,000 more lots during the year 1952.

Speaking on "How Engineers and Surveyors Can Help Improve Title to Property" Jack D. Finch, vice president and land title official discused a number of phases of land titles.

The association, whose members account for about 90 per cent of large subdivision layout work, is only a year old and is comprised of civil engineers and land surveyors in southern California.

OPENS ARCHITECTURAL OFFICE

Announcement has been made of the opening of offices in Los Angeles by Architect John Mead Scheidemen for the general practice of architecture. The new offices are located at 7024 Melrose Avenue, Telephone WHitney 7191.

CO-EDS GET MODEL HOME FOR SOCIAL LIVING STUDY

Co-eds on the Los Angeles campus of the University of California will have a model home as their laboratory for studying social and group living.

Construction has begun on a $50,000 modern building which will contain three bedrooms, a sewing room, an ultra-convenient kitchen, dining-living room, and an apartment for the house director.

The house-laboratory will provide residence for six senior home economics students for a training period of six weeks. Thus, three groups of students will live in the house each semester.

This facility is for the purpose of training future home economics teachers. They will learn to manage a home for social and group living on a family scale, actually performing, under supervision, the most advanced methods and theories of living.

James E. Westphall, project architect with the office of architects and engineers at the U.C.L.A., has designed the home to promote the California outdoor living theme, with sliding glass doors opening onto a large patio from both living and dining areas. Furnishings will follow the contemporary style.

The building contains 3,000 sq. ft. and will be finished with a combination of redwood, stucco and concrete block. Interiors will feature plastics, wood-panelled walls and plaster, while the roof will be crushed red tile. Open beam ceilings will prevail throughout.

Executive architect for the unit is Burnett C. Turner, A.I.A., and Welton Becket and Associates are the supervising architects.

ARCHITECT NAMED DIRECTOR SF CHAMBER OF COMMERCE

Among the outstanding business and professional men elected to serve the San Francisco Chamber of Commerce as a Board of Directors, is William G. Merchant, A.I.A. Architect.

Architect Merchant has long been identified with civic affairs and improvements in San Francisco.

PROGRAM FOR THE PLANNING OF DEFERRED PROJECTS

Alameda county, California, may be the testing ground for a community deferred-project planning program advocated by the California Council of Architects, according to a recent announcement by John L. Rex, Council president.

The program recently submitted to all local A.I.A. Chapters is being considered jointly by the East Bay Chapter, A.I.A., the East Bay Structural Engineers Association, and the Construction Industries Committee of the Oakland Chamber of Commerce.

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Working with representatives of the Construction Industry are three members of the California State Assembly Committee on Conservation and Planning: Randal F. Dickey, Chairman, Francis Dunn, Jr., and L. H. Lincoln, all of Alameda county.

While the project is in its exploratory stage, indications are that some consideration may be given by the 1952 California Legislature to approve funds for future planning of State and local projects.

KATE NEAL KINLEY MEMORIAL FELLOWSHIP ANNOUNCED

The Board of Trustees of the University of Illinois have announced through its Committee in charge, the twenty-first annual consideration of candidates for the Kate Neal Kinley Memorial Fellowship.

The Fellowship was established by the late President-Emeritus David Kinley in memory of his wife and in recognition of her influence in promoting the Fine Arts and similar interests upon the Campus of the University of Illinois, and yields the sum of one thousand dollars to be used by the recipient toward defraying the expenses of advanced study of the Fine Arts in America or abroad.

The Fellowship is open to graduates of the College of Fine and Applied Arts of the University of Illinois and to graduates of similar institutions of equal educational standing whose principal or major studies have been in one of the following:

Music—all branches; Art—all branches; and Architecture—design or history.

Applicants should not exceed twenty-four years of age on June 1, 1952. Applications should reach the Committee not later than May 15, 1952.

AGC REQUEST LEGISLATION TO OFFSET SUPREME COURT DECISION

H. E. Foreman, managing director of The Associated General Contractors of America, has made public the content of identical letters to Chairman Pat McCarren and Emanual Celler of the U. S. Senate and House Judiciary Committees, in which the association requests legislation to offset a recent Supreme Court decision which has a widespread effect on contracts with the Federal government.

The letters outline the reasons why there is an immediate need for legislation by Congress to clarify the provisions of federal construction, and procurement, contracts which were so limited by a recent Supreme Court decision as to prevent judicial review of findings of fact by the head of a department, except in cases where fraud on the part of the government can be alleged and proved.

Legislation is recommended as beneficial both to the government, and to business organizations which undertake work for the federal government by contract.

The Supreme Court decision was in the case of The United States, Petitioner, v. Martin Wunderlich, Ann M. Wunderlich, Maris Wunderlich, et. al., No. 11, October Term, 1951. The decision was handed down November 26, 1951.

In essence, the Supreme Court further limited the interpretation of Article 15, the disputed article of the standard government construction contract, to mean "The decision of the department head, absent fraudulent conduct, must stand under the plain meaning of the contract." The Court further stated: "By fraud we mean conscious wrongdoing, an intention to cheat or be dishonest."

The decision, as Justice Douglas stated in his strong dissent, has "wide application and a devastating effect." The decision gives the contracting officer, who is normally supported by the government head, absolute authority to determine facts relating to execution of the contract. In effect it prohibits review of a dispute by the courts, for it obviously would be impossible to allege and prove fraud upon the part of the government in the terms stated by the Supreme Court.

The decision has been receiving a great amount of study. While it theoretically might be possible to change the terms of the standard government con-

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tract by administrative or executive action, there is no assurance that such action would be taken by government departments generally, uniformly, or consistently.

It is the conclusion of the association that legislation is needed at an early date if the best interests of the United States and its contractors are to be appropriately safeguarded and preserved.

Justice Minton, in the majority opinion, stated in part: "If the standard of fraud that we adhere to is too limited, that is a matter for Congress."

In the belief that remedial legislation would be referred to the Judiciary Committee for its consideration, the AGC has recommended introduction of a bill embodying the following general principles:

1. That any government contract, regardless of the language of the contract itself, shall be subject to appeal to appropriate courts from rulings of the contracting officer or the head of the department both as to matters of fact and law.

2. That all existing contracts be modified accordingly.

3. That any matters growing out of government contracts, which were legally in process at the time of the decision, have their status renewed as of the date of such decision, and that the contract be construed in accordance with the principles set forth in 1 and 2.

OPENS REMODELED STOCKTON BUILDING

The Security Title Insurance and Guarantee Company recently opened remodeled offices in Stockton.

Occupying 10,000 sq. ft. the new building is flanked by a 50-car parking lot. Large display windows at the front of the building are set off by decorative brick work.

Shepherd & Green of Stockton were the general contractors.

COPPER COMPANY BUILDS COMPLETE MINING TOWN

The Anaconda Copper Mining Company of Butte, Montana, have started construction of an entirely new mining town near Yerington, Navada.

Preliminary construction, amounting to more than $2,500,000 will include 235 residences, dormitories, a mess hall and water, sewer and roads.

The buildings will all be of frame construction.

ARCHITECT TEACHER

Architect Ron Wilson, Seattle, Washington is teaching a class in "Basic Design" at the evening classes of the University of Washington during the winter quarter sessions.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

EVERYTHING IN IT IS YOU — A Handbook for Homemakers. By Francis deN. Schroeder. John Widdicomb Co., Publishers, New York. Price 10c.

Francis DeN. Schroeder is probably the wisest, wittiest writer on home furnishings in America today. The entire interior decorating field is covered, some parts of it in surprisingly thorough detail, and the author has pursued the theory that your home must in every way be a reflection of your own tastes and needs.

A section is devoted to period furniture; another on how much to spend; setting up a floor plan; quality; colors; and the concluding chapter is on lamps, pictures and accessories.

STATE BUILDING CONSTRUCTION CODE—Applicable to One and Two Family Dwellings. By State Building Code Commisssion of New York. 1740 Broadway, New York City.

Building codes originate with the duty of the government to protect people in matters of safety, health and welfare. Building codes are enacted as a guide for those who build, and as a protection for every one who use buildings. Most of the existing codes are old and were written when it was necessary to specify in great detail types of materials, their dimensions, and methods of construction.

State of New York, through the State Building Code Commission, has attempted in this, the first Chapter of the State Building Construction Code, to prepare a performance code which will encourage the free exercise of ingenuity in design and at the same time retain the fundamentals of assuring public safety, health and welfare in all construction. This particular issue of November 1, 1951 deals with one and two family dwellings. Other chapters applicable to other types of buildings will follow.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

338. CONCRETE TESTING MACHINE. Concrete Testing Machine. Baldwin concrete testing machines of 100,000 lb. capacity are presented in a new bulletin. The bulletin covers features, including hydraulic loading, independent hydraulic load weighing, accessories and specifications. No. 327, 2 pages, Illus.

339. PORTABLE STEEL BLEACHERS. Seating, incorporated, national bleacher manufacturers have issued a discriptive two-color brochure on SICO Portable Steel Bleachers. The brochure, 8½ x 11", outlines outstanding features of the equipment, including the unique "4th Man Feature" design principle, and details various engineering factors of safety, comfort, expandability and portability. KP-C 12/51.

340. MANUFACTURED MOULD NGS. The 1952 National Store Fronts Company's A.I.A. catalog is now available for architects and store front erectors. Containing detail drawings of all mouldings manufactured by National. 12/51.

341. TOILET COMPARTMENTS. Full information on the new Sanymetal Non-metallic, Hardboard Flush-Type Toilet Compartments, is given in a bulletin now available through The Sanymetal Products Co., Inc. The bulletin describes this new compartment made of a combinaitan of non-metallic materials for all installations where steel compartments cannot be furnished, and gives complete specifications. A.I.A. File No. 45-H-6, 6 pages, Illus. 12/7/51.

342. ELECTRIC WALL AND PORTABLE HEATERS. All models of Elemtromode all-electric domestic heaters are described in a new General Line Folder, envelope stuffer size, and printed in two colors, which has just been issued. The folder gives complete specifications, illustrations and suggested uses for wall-type and portable home heaters. EC-111, 12/51.

343. VENTILATING HOODS. The Best Way to Ventilate a Kitchen catalog gives details of the newly redesigned Stanthony Ventilating Hoods. Shows photos of the two new styles, modern and copper provincial, gives range of colors available, with complete specifications of the hoods and blower units. The new hoods fit under standard cabinets over the range and the

manufacturer claims higher efficiency because of closer proximity of the hood to the range. Roughing-in details and dimensions are given for undercabinet installation with standard venting through one half of cabinet. A.I.A. 30-D-1, 4 pages, Illus., 12/51.

344. TEMPERATURE CONTROL BULLETIN. Indoor-outdoor temperature control, the Weather-Flo, is described in a new bulletin. All details are given of construction and operation of this control which anticipates weather changes and adjusts heat input accordingly. Instructions tell how to adjust the temperature control when installing it and how to make any desired changes quickly—without the need for engineering calculations. Sketch shows how Weather-Flo control is installed. A-751, 4 pages, Illus., 12/31/51.

345. FLINTKOTE DIGEST. Flintkote Industrial Products Digest is a pocket-size, illustrated booklet briefly describes many of the standard and specialized products comprising The Flintkote Company's products for industry. The Digest is intended to serve as a guide to specific as well as custom formulated asphalt emulsions and cutbacks, asphalt, rubber and resin adhesives, coatings and sealers. The fields of protective coatings, flooring binders and cements, underlayments for decorative floors, sound deadener and insulating compounds, sealers for joints in concrete pavement, packaging specialties, sizes and laminants for fibreboard and many other items are described. 24 pages, Illus., 12/51.

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342	343	344	345

Please send to the address on my letterhead, or as I have indicated, and to my attention. (Please print your name — no literature will be sent on this coupon after February, 1952. —A. & E.)

PERMANENTE HOSPITAL FOR SAN FRANCISCO

The Permanente Foundation Hospital, with general offices in Oakland, reported recently that the architectural firm of Wolfl & Phillips of Portland, Oregon, were completing drawings and specifications for a 210-bed new Hospital Building in San Francisco.

The new hospital is to be located on Geary Blvd., between Lyon and St. Joseph Avenues. Estimated cost is $2,300,000.

ARCHITECTURAL FIRM CHANGES NAME

The architectural firm of Sutton, Whitney & Aandahl, Portland, Oregon, has changed its name and on January 1st became the firm of Whitney, Hinson & Jacobsen, A.I.A. Architects ,according to an announcement by Harrison A. Whitney, A.I.A.

The firm is one of the best known architectural organizations in the Northwest and maintains offices at 512 Failing Building in Portland.

A total of 197,493 food waste disposal units were made in the first six months of 1951 as compared with 105,573 for the same period in 1950. About 70 per cent of the total 1950 production was installed in new homes. Los Angeles leads the nation in installations.

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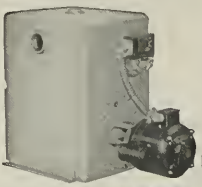

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEETS

The International Organization for Standardization will hold its triennial meeting at Columbia University in New York City early in June according to a recent announcement.

Delegates from the 32 member nations are expected to take part in the General Assembly.

The ISO is the international clearinghouse for the national standards bodies of most industrial countries, and is recognized by the United Nations as the authoritative channel through which standardization on an international level is carried out. Seventy-six technical committees are now working on projects in such fields as screw threads, plastics, packaging of frozen foods, iron and steel, textiles, gears, laboratory glassware, rubber, radio communication, graphic symbols, materials handling, and transfusion equipment for medical use.

WEST COAST MANAGER ATTENDS EASTERN MEET

Thomas B. Jordan, manager of the Mosaic Tile Company's West Coast Division with offices in Los Angeles, attended his company's annual sales meeting in Zanesville, Ohio, early in December.

Jordan, with other western representatives; Ralph Fair, Allen Gellart and Emmett Wiles of Los Angeles; L. E. Guerra, San Francisco; A. C. Oborne, Portland; and Horace W. Miller of Seattle, toured the Southwest enroute to the eastern conference.

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RESIDENTIAL UNITS FOR SACRAMENTO

Ronne, Ronne & Ronne, Sacramento home builders, recently announced the construction of seventy new homes in the area of 58th street and 17th avenue in the City of Sacramento.

Of frame and stucco construction each residence will cost approximately $8,000.

ELECTED PRESIDENT AMERICAN BITUMULS

C. W. Turner, Honolulu district manager for the Standard Oil Company of California, has been elected president of the American Bitumuls and Asphalt Company, a subsidiary of the Standard Oil Company of California.

C. W. Stewart, who has been serving as president of the company, has been named vice-chairman of the board of directors, a newly created job.

Offices of the firm are located in San Francisco.

DENVER FIRM GETS WACO FRANCHISE

Professional Paints, Inc., Denver, has been granted exclusive rights for "Waco" brand sectional steel scaffolding equipment in Colorado, four southern Wyoming counties and western Kansas.

A separate Waco division has been established in Denver with Edward Madigan, president, and Alvin D. Lichtenstein and Martin Trotsky executives. Bud Rifkin has been named Denver representative.

ALASKA CONSTRUCTION

The Denali Construction Company of Anchorage was awarded a $2,108,000 contract for the construction of Automotive Facilities at the Elmendorf military center.

LOW RENT HOUSING

The Housing Authority of Fresno County has started work on the construction of a 24-unit low rent housing project at Huron. Buildings will be of frame and stucco construction, according to architects Stevens & Clark of Fresno.

ARCHTECT OPENS OFFICE

Chester R. Phillips, A.I.A., Architect, formerly associated with Robert Stanton, A.I.A. Architect, Carmel, California, has opened offices for the general practice of architecture in Robles del Rio, California.

The new offices were opened on January 1, 1952.

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor & Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.

Glazed Structural Units—

Clear Glazed—	
2 x 6 x 12 Furring	$1.60 per sq. ft.
4 x 6 x 12 Partition	1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition	2.25 per sq. ft.
For colored glaze add	.30 per sq. ft.

Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Cartage—Approx. $10.00 per M.
Paving—$75.00.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30
F.O.B. Plant	

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll	$5.30
2 ply per 1000 ft. roll	7.80
3 ply per 1000 ft roll	9.70
Brownskin, Standard 500 ft. roll	6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll	7.00

Sheathing Papers—

Asphalt sheathing, 15-lb. roll	$2.00
30-lb. roll	2.79
Dampcourse, 216-ft. roll	2.95
Blue Plasterboard, 60-lb. roll	5.10

Felt Papers—

Deadening felt, ¾-lb., 50-ft. roll	$3.23
Deadening felt, 1-lb.	3.79
Asphalt roofing, 15-lbs.	2.00
Asphalt roofing, 30-lbs.	2.79

Roofing Papers—

Asphalt Rfg., 15 lb.	$2.09
Standard Grade, 108-ft. roll, Light	1.87
Smooth Surface, Medium	2.18
Heavy	2.56
M. S. Extra Heavy	2.96

BUILDING HARDWARE—

Sash cord com. No. 7	$2.65 per 100 ft.
Sash cord com. No. 8	3.80 per 100 ft.
Sash cord spot No. 7	3.65 per 100 ft
Sash cord spot No. 8	3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.	
1-Ton lots, per 100 lbs.	$3.75
Less than 1-ton lots, per 100 lbs.	$4.75
Nails, per keg, base	$11.80
8-in. spikes	11.80
Rim Knob lock sets	1.80
Butts, dull brass plated on steel, 3½x3½	.76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ½" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88
Cement—		
Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.		
Per Sack, small quantity (paper)		$1.05
Carload lots, in bulk per bbl		2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.		
Cash discount 2% on L.C.L.		
Trinity White, Medusa White	1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.	

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards*	$12.00
10 to 100* yards	11.00
100 to 500 yards	10.50
Over 500 yards	10.30

* Delivered to site.

CONCRETE BLOCKS—

	Haydita	Basalt
4x8x16-inches each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	....	.60

Haydita Aggregates—

¾-inch to ⅜-inch, per cu. yd.	$7.25
⅜-inch to ⅛-inch, per cu. yd.	7.25
No. 6 to 0-inch, per cu. yd.	7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse
Tricosal concrete waterproofing, 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock, will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft
Mastic Waar Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	1½x2¼	½x2	¾x2	1x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅝ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

25/32 x 2¼ First Grade	$390.00
25/32 x 2¼ 2nd Grade	365.00
25/32 x 2¼ 2nd & Btr. Grade	375.00
25/32 x 2¼ 3rd Grade	240.00
25/32 x 3¼ 3rd & Btr. Jtd. EM	380.00
25/32 x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00
Floor Layer Wage $2.50 hr.	

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Glass	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Glass	.64 per □ ft.
⅛ in. Obscure Glass	.40 per □ ft.
3/32 in. Obscure Glass	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glazing at above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness (3¾") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x8' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Delvd.
V.G.-D.F. B & Btr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-5IS $170.00
½-inch, 4.0x8.0-5IS 250.00
¾-inch, per M sq. ft. 315.00
Plyscord ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square
Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).

Double hung box window frames, average with trim, $12.50 and up, each.

Complete door unit, $15 to $25.

Screen doors, $8.00 to $12.00 each.

Patent screen windows, $1.25 a sq. ft.

Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.

Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.

Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.

For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 8Sc
Three-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (Soft - Paste)

Net Weight Packages	List Price per 100 lbs.	Pr. per pkgs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05 -	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead—Red Lead in Oil

Price to Painters—Price Per	100 lbs.	50 lbs.	25 lbs.
Products			
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Seilings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLiLme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply--$11.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
S/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
S/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per square.. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes. 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M. $240.00
Standard, 8-in. per M. 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Copper, $1.25 sq. ft. (flat).
Galvanized iron, 65c sq. ft. (flat).
Vented hip skylights, $1.50 sq. ft.

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock

STEEL REINFORCING—

$200.00 per ton, in place.

¼-in. Rd. (Less than 1 ton)	$8.40
⅜-in. Rd. (Less than 1 ton)	7.30
½-in. Rd. (Less than 1 ton)	7.00
⅝-in. Rd. (Less than 1 ton)	6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton)	6.65
1-in & up (Less than 1 ton)	6.60

1 ton to 5 tons, deduct 25c.

STORE FRONTS (None available).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" x 9" ..... $ .18 - $ .35 sq. yd. Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 per sq. ft.
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings refers to the major group classification where complete data on the dealer, or representative, may be found.

AIR CONDITIONING (6)
Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58, 4851 S. Alameda St.
San Francisco, 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (6a)
Ceramic Veneer
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City
GLADDING, McBEAN & CO. *(1)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
(Dept. AE-450)
Room 601, Franklin Building, Oakland 12, California
P. O. Box 186, East Pasadena Station, Pasadena 8, California
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834

BANKS-FINANCING (1b)
CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery St's., EX 2-7700

BRASS PRODUCTS (1a)
GREENBERG'S, M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BRICKWORK (1)
Face Brick
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Offices at Portland, Seattle, Spokane
KRAFTILE
Niles, California, Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241
REMILLARD-DANDINI CO.
San Francisco: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (1b)
GREENBERG'S M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BUILDING PAPER & FELTS (2)
SISALKRAFT COMPANY
San Francisco: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive
ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Boulevard

BUILDING HARDWARE (3)
THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (c)
PACIFIC PORTLAND CEMENT
San Francisco: 417 Montgomery St., GA 1-4100

CONCRETE AGGREGATES (4)
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond, Calif.: 26th & B Sts.—Yard 2, RI 4307

DOORS (4a)
Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St. AD 1-1108
Distributors:
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
T. M. COBB CO.
Los Angeles: & San Pedro
SOUTHWEST SASH & DOOR
Phoenix, Arizona
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN CO.
(See Hollywood Door listing above)

FIRE ESCAPES (5)
SOULE STEEL
San Francisco: 1750 Army St., VA 4-4141
Los Angeles, Calif.—LA 0911
Portland, Ore.—BE 5155
Seattle, Wash.—SE 3010
MICHEL & PFEFFER IRON WORKS, INC.
South Linden and Tanforan Aves.
South San Francisco: JU 4-8362

FIREPLACES (5a)
Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St. PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (6)
Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
E. K. WOOD LUMBER CO.
Los Angeles: 4710 S. Alameda St., JE 3111
Oakland: 727 Kennedy St., KE 4-8466
Portland: 827 Terminal Sales Building
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
470 Alabama St., San Francisco, MA. 1-7766
Los Angeles, 923 E. 3rd, TRinity 8282
Seattle, 3440 E. Marginal Way
Diversified (Magnesite, asphalt tile, composition, etc.)
LeROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LeROY OLSON CO.

GLASS (7)
W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Oregon

HEATING (8)
HENDERSON FURNACE & MFG. CO.
Sebastopol, Calif.
S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 No. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
Electric Heaters
ELECTROMODE CORP.
Rochester, N. Y.
San Francisco: 1355 Market St., KL 2-2311
Northern California Distributors
GENERAL ELECTRIC SUPPLY CORP.
San Francisco: 1201 Bryant St., UN 3-4000
Emeryville: 5400 Hollis St., OL 3-4433
Sacramento: 1131 S St., GI 3-9001
Fresno: 1234 O St., Fresno 4-4746
INCANDESCENT SUPPLY COMPANY
Redding: 2146 Pine St., Redding 200
THOMAS B. HUNTER (Designer)
San Francisco: 41 Sutter St., GA 1-1164
UTILITY APPLIANCE CORP. *(6)

INSULATION AND WALLBOARD (9)
LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
SISALKRAFT COMPANY *(2)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Sacramento: 1224 I Street, 2-8993
Stockton: 1120 E. Weber Ave., 4-1863
Fresno: 1837 Merced Street, 3-3277
San Jose: 201 So. Market St., BA 4359-J

IRON—Ornamental (10)
MICHEL & PFEFFER IRON WORKS, INC. * (5)

LANDSCAPE (11a)
Landscape Contractors
HENRY C. SOTO CORPN.
Los Angeles, 13000 S. Avalon Blvd. ME 4-6617

LIGHTING FIXTURES (11)
SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (12)
HOGAN LUMBER COMPANY *(6)
LUMBER MANUFACTURING CO. *(9)
E. K. WOOD LUMBER CO *(6)
Shingles
SIDEWALL LUMBER COMPANY
San Francisco 24: 1995 Oakdale Ave., AT 2-8112

MARBLE (13)
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (14)
FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100
SOULE STEEL *(5)

MILLWORK (15)
PACIFIC MANUFACTURING COMPANY
San Franciscso: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles: 6820 McKinley Ave., TH 4196
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Reusch St., UN 1-5815
LUMBER MANUFACTURING COMPANY *(9)

PAINTING (16)
Paint
W. P. FULLER COMPANY *(7)

PLASTER (17)
Exteriors
PACIFIC PORTLAND CEMENT COMPANY*(4)
Interiors—Metal Lath & Trim
FORDERER CORNICE WORKS *(14)

PLASTIC CEMENT (f)
PACIFIC PORTLAND CEMENT CO.
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (18)
THE SCOTT COMPANY *(8)
THE HALSEY TAYLOR COMPANY

Redlands, Calif.
Warren, Ohio

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

SEWER PIPE (19)

GLADDING, McBEAN & CO. *(1)

PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

SHEET METAL (20)

Windows

DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890

MICHEL & PFEFFER IRON WORKS, INC. *(5)

SOULE STEEL COMPANY *(5)

Fire Doors

DETROIT STEEL PRODUCTS COMPANY

Skylights

DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (21)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle: 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

KRAFTILE COMPANY *(1)

SAN JOSE STEEL COMPANY
San Jose: 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (22)

REPUBLIC STEEL CORP. *(21)
HERRICK IORN WORKS *(21)
SAN JOSE STEEL CO. *(21)
COLUMBIA STEEL CO. *(21)

TILE (23)

GLADDING, McBEAN & CO. *(1)

KRAFTILE COMPANY *(1)

PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

TIMBER—REINFORCING (b)

Trusses

WEYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber

J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (24)

GLADDING, McBEAN & CO. *(1)
KRAFTILE COMPANY *(1)

WINDOWS STEEL (25)

DETROIT STEEL PRODUCTS CO. *(20)

MICHEL & PFEFFER IRON WORKS, INC.*(5)

SOULE STEEL COMPANY *(5)

GENERAL CONTRACTORS (26)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS) (27)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS	3.25**	3.15*	3.15	2.85	3.25	3.00	3.00	3.25	1.75	1.75	1.75	1.75	1.75
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	2.20	2.20	2.20	2.20	2.20
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.28	2.28	2.28	2.28	2.28
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.50	2.50	2.50	2.50	2.50
ELECTRICIANS	2.75	2.60	2.60	2.75	2.50	2.50	2.625	2.60	2.25	2.25	2.25	2.25	2.25
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	1.9875	1.9875	1.9875	1.9875	1.9875
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.00	2.00	2.00	2.00	1.96
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.255	2.255	2.255	2.255	2.255
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.28	2.28	2.28	2.28	2.28
REINF. RODMEN	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.30	2.30	2.2375	2.30	2.30
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	1.65	1.65	1.65	1.65	1.65
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	2.50	2.50	2.50	2.50	2.50
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.25	2.25	2.25	2.25	2.25
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.40	2.40	2.40	2.40	2.40
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.22	2.22	2.22	2.22	2.22
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.33	2.33	2.33	2.33	2.33
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.50	2.75	2.50	2.50	2.50
PLASTERERS	3.00	3.15*	3.15	2.75	3.00	3.00	3.125	3.00*	2.15	2.25	2.30	2.00	2.00
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.50	2.50	2.50	2.50	2.50
PLUMBERS	2.625	2.625	2.625	2.675	2.625	2.625	2.625	2.625	2.75	2.00	1.90	2.00	2.00
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.15	2.15	2.175	2.00	2.15
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.25	2.25	2.25	2.25	2.25
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.675	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
STEAMFITTERS	2.625	2.625	2.625	2.625	2.675	2.625	2.625	2.625					
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4325	2.875	2.875	2.50	2.50	2.20	2.50	2.25

* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

SOUTHERN CALIFORNIA HOME DEMANDS WILL CONTINUE

According to Mark A. Thoreson, newly elected president of the Home Builders Institute of Los Angeles, home ownership is the goal of most southern California families and as a result the demand for residences will remain great during 1952.

Homebuilding will be subject to increased costs and building material problems may arise, however, Thoreson believes that housing requirements for defense workers, military personnel and civilians will be adequately provided. In addition rehabilitation of blighted areas will receive considerable study as the home building industry will encourage eradication of slum areas and substandard dwellings by private enterprise, consistant with the emergencies of the nation.

Thoreson also pointed out that the cost of shelter is taking less and less out of the family budget dollar, as government figures show that during the 1935-39 period 18.1 per cent was spent for shelter while in current period only 11.2 per cent goes for shelter.

PITTSBURG-CAMP STONEMAN AREA NAMED CRITICAL DEFENSE HOUSING

Certification of the Pittsburg-Camp Stoneman area as a critical defense housing area for suspension of housing credit restrictions, more liberal mortgage insurance benefits and other housing aids under Public Law has been announced by the Defense Production Administration.

The area designated includes the cities of Antioch, Concord, and Pittsburg which had a population of 87,000 in 1950, and a recent survey shows that housing development in the community has not kept pace with expansion at Camp Stoneman and several industrial plants.

NAMED TO U. S. STEEL PUBLIC RELATIONS

Julian Street, Jr., one time secretary of the New York Museum of Modern Art, has been appointed a special assistant to the U. S. Steel Corp., New York Public Relation Staff, according to a recent announcement by J. Carlisle MacDonald, assistant chairman of the board.

Street has also served in numerous governmental agencies in Washington, D. C., and at the time of his appointment to the staff of U. S. Steel, was serving as information officer of ECA in Paris.

LOS ANGELES BUILDERS EXCHANGE NAME OFFICERS

Ray A. Myers, general building contractor, has been elected president of the newly organized Los Angeles Builders Exchange.

Other officers elected to head the new construction industries group are George F. Allison, Barber-Colman Company, vice president; G. Floyd Rice, Thompson Glass and Paint Company, Secretary; Haylett B. Shaw, Overly Mfg. Co., Treasurer; and William K. Wright, manager. Ben Fallgren, Clifford Monk, Ed Herlocker, Henry L. Wright, and Barrett Hannawalt were named to the Directorate.

The Exchange will open a new plans room, clearing house for architects' and engineers' plans and specifications in the near future.

HILLYARD RELEASES NEW TYPE PLASTIC SEAL

A sensational new penetrating seal called HILTEX has just been released by the Hillyard Chemical Company of St. Joseph, Missouri, following many years of research in the company's laboratories and extensive field testing through more than 100 divisional Field offices.

The new product is the answer to management's need for a simplified and economical method of resilient floor care; for a safer maintenance product to protect newer types of sensitive floor coverings; for a means of preserving color and beauty through the years.

Resistant to oils, grease, fats, alcohols, water, soap and a great number of aliphatic hydrocarbons such as gasoline, mineral spirits, paraffin oil, HILL-TEX is not affected by acid or alkaline salts present in certain flooring, ozone in the air, the fading action caused by Ultra Violet light.

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PHOTOGRAPHY. For the best in construction photography, including exterior and interior, aerial, and progress views . . . you will find as many others have that it's the SKELTON STUDIO'S, 137 Harlan Place, San Francisco. Telephone YUkon 6-6321.

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FLOOR COVERINGS for industrial, commercial, and residential construction. Complete lines, one of the oldest, best established organizations in the Sacramento Valley. LATTIN'S, INC., 1519 Alhambra Blvd., Sacramento.

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

NEW PITTSBURG HEIGHTS SCHOOL, Pittsburg, Contra Costa County. Pittsburg Unified School District, owner. 10 classrooms, administration, 2 kindergartens, library and toilet rooms, $453,894. ARCHITECT: A. A. & A. McKantin, San Francisco. Concrete and frame construction. GENERAL CONTRACTOR: Calif. Bldrs. Co., Oakland.

TRUCK TERMINAL, Modesto, Stanislaus County. K. Varni & Assoc., owner. $50,000. ARCHITECT: G. N. Hilburn, Modesto. 1 story, reinforced concrete and frame and stucco construction. GENERAL CONTRACTOR: Wieland Bros., Sacramento.

NEW SIERRA ELEMENTARY SCHOOL, Carmichael, Sacramento County. Arden-Carmichael Elementary School District, owner. 10 classrooms, administration, library, 2 kindergarten, multi-purpose, kitchen and toilet rooms, $461,276. ARCHITECT: Gordon Stafford, Sacramento. Frame and stucco construction. GENERAL CONTRACTOR: A. L. Miller, Sacramento.

ELEMENTARY SCHOOL, Hawthorne, Nevada. Hawthorne Elementary School District No. 7, owner. 21 classrooms, administrative unit, multi-use room, shop and toilets, $722,988. ARCHITECT: Russell Mills, Reno. Frame and stucco construction. GENERAL CONTRACTOR: Walker Baudwin Construction Co., Reno.

SCIENTIFIC RESEARCH LABORATORY & AUDITORIUM, Santa Monica, Los Angeles County. Rand Corp., owner 8 acre site, 2 story, $1,500,000. ARCHITECTS: H. Roy Kelley and William Gadwin Assocs., Los Angeles. STRUCTURAL ENGINEER: S. B. Barnes, Los Angeles. MECHANICAL ENGINEER: Samuel Kaye, Los Angeles. ELECTRICAL ENGINEER: Sheldon W. Swickard, Los Angeles. 120,000 sq. ft., 500 seat auditorium, reinforced concrete construction, composition roofing, interior plastering, structural steel, steel sash, air conditioning, toilets. GENERAL CONTRACTOR: Simpson Construction Co., Los Angeles.

GRAMMAR SCHOOL ADDITION, Newark, Alameda County. Newark Elementary School District, owner. 7 classrooms, multi-purpose, kitchen, stage, art, teachers and toilet rooms, $259,750. ARCHITECT: Geo. E. Ellinger, Oakland. Frame and stucco construction, steel sash, asphalt tile floors, radiant heating. GENERAL CONTRACTOR: Harry K. Jensen, Oakland.

WAREHOUSE & OFFICE, Oakland, Alameda County. General Electric Co., owner. $350,000. ENGINEER: J. J. Lang Co., Oakland. 1 story, 180 x 340, reinforced concrete construction, wood roof trusses, approximately 10,000 sq ft. office space. GENERAL CONTRACTOR: Parker, Steffens & Pearce, San Francisco.

FACTORY BUILDING, San Jose, Santa Clara County. Moore Industrial Co., owner. $320,000. ARCHITECT: Sobey & Green, Los Gatos. 1 story, 128 x 400, reinforced concrete, wood trusses and roof, steel sash. GENERAL CONTRACTOR: Buttress & McClelland, San Jose.

LOW RENT HOUSING PROJECT, Fresno, Fresno County. Housing Authority City of Fresno, owner. 176 units, $1,156,216. ARCHITECT: John P. Miller, Fresno; Benjamin F. Lippold, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: Oppenheim & King, Fresno.

NEW GRAMMAR SCHOOL, Fresno, Fresno County. Madison Elementary School District, owner. 21 classrooms, administration, office, 2 kindergarten, multi-purpose, kitchen and toilet rooms, $614,800. ARCHITECT: Coates & Metz, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: Lewis C. Nelson & Son, Fresno.

NEW ELEMENTARY SCHOOL, Herlong, Lassen County. U. S. Government, owner. 8 classrooms, administration, 2 kindergartens and toilet rooms, $347,247. ARCHITECT: Robt. C. Kaestner, Visalia. Frame and stucco construction. GENERAL CONTRACTOR: A. J. Hopper Co., San Francisco.

SWEET GOODS PLANT, Los Angeles, Los Angeles County. Barbara Ann Baking Company, owner. 2 story, $224,797. ARCHITECT: Bennett & Bennett, Pasadena. Type III building, reinforced brick, truss roof, composition roofing, steel sash, concrete floor. GENERAL CONTRACTOR: J. H. Baum & Son, Los Angeles.

FIVE SHOP BUILDINGS, Compton, Los Angeles County. Compton Junior College District, owner. Five 1 story buildings, $443,500. ARCHITECT: Austin, Field & Fry, Los Angeles. Steel frame, brick veneer, corrugated cement, asbestos roofing, concrete, terrazzo and ceramic tile flooring, steel sash, metal toilet partitions. GENERAL CONTRACTOR: Morley Building Co., Beverly Hills.

LOYOLA ELEMENTARY SCHOOL, Los Altos Santa Clara County. Los Altos Elementary School District, owner. 9 classrooms, health room, 2 kindergartens, multi-purpose, kitchen & toilet rooms, $287,000. ARCHITECT: Lawrence W. Gentry, Los Altos. Frame & stucco construction, concrete slab, radiant heating. GENERAL CONTRACTOR: Geo. Bianchi, San Jose.

LINCOLN ELEMENTARY SCHOOL, Kingsburg, Fresno County. Kingsburg Joint Union Elementary School District, owner. 9 classrooms, administration, multi-purpose, kitchen, toilet rooms, $232,953. ARCHITECT: Coates & Metz, Fresno. Frame & stucco construction, steel sash, radiant heat, asphalt tile floors. GENERAL CONTRACTOR: Ellberg & Conklin, Kingsburg.

NEW COUNTY OFFICE BUILDING, San Jose, Santa Clara County. County of Santa Clara, owner, $513,200. ARCHITECT: Birge M. Clark & Walter Stromquist, Palo Alto. GENERAL CONTRACTOR: Carl N. Swenson Co., San Jose.

MORTUARY BUILDING, Millbrae, San Mateo County. Scott & Larson, owner, $52,803. DRAFTSMAN: Irving Caster, San Mateo. Concrete block & frame construction. GENERAL CONTRACTOR: Mallock Construction Co., San Francisco.

NEW DEL REY WOOD SCHOOL, Monterey, Monterey County. Monterey Elementary School District, owner. 15 classrooms, kindergarten, administration & toilet rooms, $504,202. ARCHITECT: Robert Stanton, Carmel. Frame & stucco construction. GENERAL CONTRACTOR: F. V. Hampshire, Salinas.

MADISON SCHOOL, San Gabriel, Los Angeles County. San Gabriel School District, owner. 20 classrooms, food & clothing unit, administration unit, multi-purpose unit, shop, $467,419. ARCHITECT: Kistner, Curtis & Wright, Los Angeles. 1 story, frame & stucco construction, composition roofing, concrete floor, asphalt tile floor covering, ceramic tile, radiant heating, painting. GENERAL CONTRACTOR. Reisinger & Baxter, Burbank.

LOW RENT HOUSING PROJECT, San Pedro, Los Angeles County. Housing Authority of the City of Los Angeles, owner. Permanent 194 dwelling unit, $1,347,500. ARCHITECT: Armand Monaco, Los Angeles. 2 story frame & stucco with composition roofs, concrete slab first floor, hardwood and linoleum second floor, asphalt tile flooring, steel sash, tile or stainless steel counter tops, gas wall heaters. GENERAL CONTRACTOR: Milton Kauffman Construction Corp., Gardena.

CLINIC BUILDING ADDITION, Grunow Memorial Clinic, owner. 1 x 58 ft., $97,532. ARCHITECT: Lester Byron, Phoenix. Masonry construction, tile roofing, asphalt tile flooring, gas fired heating, air conditioning, glass blocks, insulation, metal lath, steel sash and cast stone. GENERAL CONTRACTOR: Homes & Son, Phoenix.

NEW GRAMMAR SCHOOL, Fresno, Fresno County. Scandinavian Elementary School District, owner. 18 classrooms, office, 2 kindergartens, kitchen, multi-purpose, toilet rooms, $587,773. ARCHITECT: Coates & Metz, Fresno. Frame & stucco construction, steel sash, asphalt tile floors, radiant heating. GENERAL CONTRACTOR: Midstate Construction Co., Fresno.

SHOPPING CENTER ADDITION, Santa Clara, Santa Clara County. El Camino Homes, Inc., owner. 3 stores, $100,000. ARCHITECT: John B. Anthony, Oakland. Concrete block & frame construction.

ARMY WHERRY HOUSING PROJECT, San Francisco. Corps of Engineers, U. S. Army, owner. 500 units, $4,488,900. ARCHITECT: McSweeney, San Francisco. Frame & stucco construction. SPONSOR: Bauer Construction Co.

REMOTE RECEIVER FACILITY, Alaska. Alaska District, U. S. Army, owner. 450 sq. ft., $720,611. ARCHITECT: John Paul Jones & Leonard W. Bindan, Seattle. 2 story concrete building, dining room, kitchen, generator room, slab and slab fill over steel deck floors. GENERAL CONTRACTOR: S. S. Mullen, Inc., Seattle.

ADDITIONS TO CENTINELA VALLEY HOSPITAL, Inglewood, Los Angeles County. Centinela Valley Community Hospital, owner. Surgical nursing wing, 39 beds, $159,125. ARCHITECT: A. R. Walker. Gus Kalianzes & C. A. Klingerman, Los Angeles. 1 story, reinforced concrete & brick construction, aluminum & steel windows, Kalamein doors, composition roofing, insulation, ceramic tile, terrazo, resilient floors. GENERAL CONTRACTORS: Chotiner & Gumbiner, Los Angeles.

DEL ROSA SCHOOL, Del Rosa Elementary School District, owner. 3 classrooms, kindergarten, administration unit, kitchen unit, toilet facilities, covered passageways, and storage rooms, $117,980. ARCHITECT: Jerome G. Armstrong, San Bernardino. 1 story, part reinforced concrete, steel frame with

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stud and plaster liller walls, 6000 sq. ft., composition roofing, asphalt tile, steel sash, acoustic tile work, ceramic tile. GENERAL CONTRACTOR: Bakker Construction Co., San Bernardino.

MANOR JUNIOR ELEMENTARY SCHOOL, Menlo Park, San Mateo County. Ravenswood Elementary School District, owner. 17 classrooms, administration, 2 kindergartens, library, home-making, shops, music, multi-purpose, boys & girls shower & locker buildings, toilet rooms, $1,195,020. ARCHITECT: Arthur D. Janssen, Menlo Park. Concrete block & frame construction (CMP granted). GENERAL CONTRACTOR: E. A. Hathaway & Co., San Jose.

CHURCH BUILDING, Bellflower, Los Angeles County. Second Christian Reformed Church, owner. 59 x 134 feet, auditorium for 600, $90,000. ARCHITECT: Harold C. Wildman, Long Beach. Frame & stucco construction, roof trusses, composition shingle roofing, concrete slab, asphalt tile, ceramic tile toilets.

HEALTH CLUB AND APARTMENT, Beverly Hills, Los Angeles. Jos. and Samuel Hirsch, owners. 2 story, second story apartment, 6200 sq. ft., $60,000. ARCHITECT: Sam Reisbord, Los Angeles. Reinforced brick walls, composition roofing, cement slab, quarry tile, asphalt tile, ceramic tile, plywood floors, steel sash, aluminum awnings, tile showers, brick patio walls. GENERAL CONTRACTOR: Robson-Berns, Beverly Hills.

ELEMENTARY SCHOOL ADDITION, Fresno, Fresno County. Teaque Elementary School District, owner. 6 classrooms, 2 kindergartens, multi-purpose, kitchen & toilet rooms, $288,077. ARCHITECT: Franklin & Simpson, Fresno. Frame & stucco. GENERAL CONTRACTOR: Larsen-Ratto Const. Co., Fresno.

SACRAMENTO JUNIOR COLLEGE, Sacramento, Sacramento County. Sacramento Board of Education, owner. 2 shops and cosmetology building, 3 buildings, $323,436. ARCHITECT: Harry J. Devine, Sacramento. Reinforced concrete construction. GENERAL CONTRACTOR: Campbell Construction Co., Sacramento.

COUNTY HOSPITAL ADDITION, Ventura, Ventura County. Ventura County Board of Supervisors, owner. 104 beds, 5 surgical operating rooms, 4 stories, $1,265,979. ARCHITECT: Roy C. Wilson, Santa Paula. Reinforced concrete construction, composition roofing, steel sash, slab & terrazo floors, interior plaster, elevators, ceramic tile, asphalt tile floors. GENERAL CONTRACTOR: Allison Honer Co., Santa Ana.

PHYSICAL EDUCATION BUILDING AND ARMORY, Tempe, Arizona. Arizona State College, owner. 199 x 214 ft., 3 stories with basement, $930,491. ARCHITECT: Kemper Goodwin, Tempe. Structural steel and concrete construction, masonry glass block, facing tile, movable partitions, metal windows, sheetmetal, metal toilet and shower partitions, terrazzo, asphalt tile, gymstands, air-conditioning, swimming pool and stadium. GENERAL CONTRACTOR: McGinty Construction Co., Phoenix.

BATTERY FACTORY ADDITION, Oakland, Alameda County. Auto-Lite Battery Corp., owner, $100,000. ENGINEERS: Ropp & Ropp, Los Angeles. 2 story brick & frame construction. GENERAL CONTRACTOR: John F. Tullock, Oakland.

ELEMENTARY SCHOOL ADDITION, Riverbank, Stanislaus County. Riverbank Elementary School District, owner. 12 classrooms, administration, kindergarten, kitchen, shop, shower & locker rooms, toilet rooms, $391,790. ARCHITECT: Anderson & Simons, Oakland. Frame & stucco construction, steel sash, radiant heating, asphalt tile floors. GENERAL CONTRACTOR: George Roek, Stockton.

CORDUA ELEMENTARY SCHOOL ADDITION, Marysville, Yuba County. Cordua Elementary School District, owner. 2 classrooms, $31,421. ARCHITECT: Herbert E. Goodpastor, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: Berlinger Corp., Chico.

SHERIFF'S COMMUNICATION BUILDING, Martinez, Contra Costa County. County of Contra Costa, owner, $31,865. ARCHITECT: Jack Buchter. 1 story, frame & stucco construction. GENERAL CONTRACTOR: R. H. Myers, Richmond.

INDUSTRIAL AND OFFICE BUILDING, Pasadena, Los Angeles County. Vido Kovacevich, owner. 1 story industrial building, 50 x 100 feet, with adjoining office building, $77,700. ARCHITECT: Harold J. Bissner, Pasadena. Concrete block and frame & stucco construction, composition roofing, steel sash, concrete slab floor, asphalt tile. GENERAL CONTRACTOR: Frank H. McKeen, Pasadena.

SYNAGOGUE, West Los Angeles, Los Angeles County. Temple Isaiah, Inc., owner. Classrooms, auditorium, study, library, offices, 20,000 sq. ft., $191,300. ARCHITECT: Kenneth N. Lind, Los Angeles. Youtz-Slick Lift Slab method, masonry walls, concrete floor and roof slab, composition roofing, ceramic tile, brick facing, ornamental iron work. GENERAL CONTRACTOR: Zimmer Construction Co., Los Angeles.

LOW RENT HOUSING PROJECT, Modesto, Stanislaus County. Housing Authority of Stanislaus County, owner. 150 units, $989,946. ARCHITECT: Donald Powers Smith, San Francisco. Duplex residences, concrete block & frame construction, cement tile roofs. GENERAL CONTRACTOR: Willis & Willis, Fresno.

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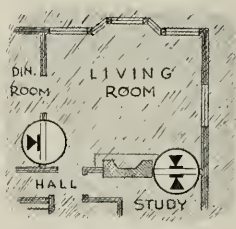

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IN THE NEWS

NEW FACTORY FOR SOUTHERN CALIFORNIA

A new $500,000 building has been opened for the Rose Marie Reid, swim suit manufacturer, in the International Airport Industrial area of Los Angeles.

Containing 67,000 sq. ft., the building was designed by architect S. Charles Lee.

Factory and executive offices are decorated in pastel colors, and among features of the building is a cafeteria serving 700 employees that opens onto a pool-side patio. The swim pool serves as a testing laboratory as well as a recreation attraction for the firm's employees.

ARCHITECT SELECTED

The architectural firm of Spencer & Ambrose, San Francisco, has been selected by the Housing Authority of the City and County of San Francisco, to draw plans for a 608-Unit low-rent housing project.

To be located at Turk and Eddy, Laguna and Buchanan, and Pierce and Divisadero streets it is estimated the project will cost some $6,000,000 to construct, and will consist of multi-story apartment buildings.

NAVY GRADUATE ENGINEER SCHOOL

Plans have been announced by the U. S. Navy, Public Works Office, San Francisco, for the construction of a new Navy Graduate Engineering School at Monterey as a part of the U. S. Naval School there.

Estimated cost of the work is $5,000,000.

Skidmore, Owings & Merrill, San Francisco, are the architects.

NEW FACTORY FOR OAKLAND

A certificate of necessity has been granted for the construction of a new factory building in East Oakland for the General Metals Corporation.

Approximate cost of the new building is $1,500,000.

ARCHITECT FOR HOSPITAL

Architect Erling Olauson of Sacramento has been selected by the City of Roseville (California) to develop plans for a 24-bed Municipal Hospital to be built in Roseville.

It is estimated the new hospital will cost $250,000.

BECHTEL CORPN. NAMES JOHN L. SIMPSON

John L. Simpson, director of the Bechtel Corporation since 1945, has been named Chairman of the Finance Committee, according to an announcement by S. D. Bechtel, president of the company.

He has resigned his position as Executive vice-president of the J. Henry Schroder Banking Corporation and the Schroder Trust Company of New York, with which he has been connected since 1925.

Simpson will make his headquarters in San Francisco.

NEW COUNTY OFFICE AND COURT ROOMS

The Board of Supervisors of Contra Costa County have commissioned Architect Donald L. Hardison of Richmond, to draft plans for a new County Office and Court Room Building to be built in the City of Richmond at a cost of $800,000.

The three story building containing a basement, will be 62 ft. x 242 ft. dimension and will be erected in the city's new Civic Center.

MARIN COUNTY SHOPPING CENTER

The Schultz Company of Greenbrae, Marin county, has announced the appointment of the architectural firm of Gruen & Krummeck of Los Angeles and San Francisco, to draw plans for the construction of a new Shopping Center comprising a super market and four stores.

The new center is to be built in Greenbrae on the St. Francis Drake Boulevard.

ENGINEER SELECTED

The Engineering firm of Sverdrup & Parcel, Inc. of San Francisco has been chosen by the U. S. Navy, Bureau of Yards and Docks, to design additional aviation facilities at the Fallon, Nevada, Naval Auxiliary Air Field.

Cost of the planned improvements will be approximately $3,000,000.

WRECKING STORES FOR GARAGE

The old Lick Building, between Post and Sutter streets, San Francisco, is being razed preparatory to the construction of a modern, three story and basement and roof, garage.

Ellison & King are the Structural Engineers. The building will be of concrete, prestressed concrete girders, and a central ramp of Lick Place.

POLICE STATION REMODEL PROJECT

The City of Bakersfield will spend $85,000 remodeling the old St. Francis School into a new police station, according to Robert N. Eddy, architect, who has been commissioned by the City to draft plans and specifications for the project.

MEDICAL CENTER AT EL MONTE

The El Monte Medical Center is doubling its capacity by the addition of a new two story wing and additional hospital facilities at an estimated cost of $500,000.

T. W. Nibecker of Huntington Park is the architect.

LOW INCOME HOUSING

The Housing Authority of the City of Richmond has commissioned architect Donald L. Hardison of Richmond, to draft plans and specifications for the construction of a 300-unit low income housing project on Easter Hill in Richmond.

Of frame and concrete block construction the project will cost an estimated $2,000,000.

COURT HOUSE ADDITION

The Kern County Board of Supervisors has commissioned architect Ernest L. McCoy and Francis Parsons of Bakersfield, to draw plans and specifications for the construction of an addition to the Court House in Bakersfield.

The Board has approved an expenditure of $800,000 for the project.

SORORITY HOUSE FOR BERKELEY

The Alpha Gamma Delta sorority has announced plans for the construction of a new three-story and basement Sorority House in Berkeley to serve members attending the University of California.

Ponsford and Price, architects of Oakland, have been commissioned to draft plans for the building which it is estimated will cost $200,000 to build.

ARCHITECT FOR SCHOOL

The Flowery Union Elementary School District, Fetters Springs, Sonoma County, has commissioned Architect C. A. Caulkins, Jr., of Santa Rosa to design a 4-classroom, administration and toilet room New Elementary School building in Fetters Springs.

LOS ANGELES INDUSTRIAL

Construction has begun on 15 light industrial buildings which will complete development of the 95 acre Los Angeles International Airport Industrial Tract at Aviation and Century Blvd., being developed under sponsorship of the Hayden-Lee Development Company.

The project represents a development of more than $15,500,000, contains 55 buildings, most of which have been designed by architect S. Charles Lee, and was started less than 15 months ago.

INDUSTRIAL PLANT FOR ORANGE COUNTY

A $3,500,000 electrical motor manufacturing plant is scheduled to be built in Orange County during 1952 by the U. S. Electrical Motors, Inc.

Site for the new manufacturing plant is an 85-acre plot midway between Anaheim and Buena Park some twenty miles from downtown Los Angeles. Construction will include a 50,000 sq. ft. administration building and 250,000 sq. ft. of covered manufacturing area.

Marsh, Smith & Powell of Los Angeles are the architects.

ELEMENTARY SCHOOL ARCHITECT CHOSEN

The architectural firm of Koblik & Fisher, Sacramento, has been chosen by the Thermalito Elementary School District in Butte County, to draft plans and specifications for a new Elementary School building near Oroville.

Of frame and stucco construction the new building will cost approximately $326,000.

NEW LIBRARY FOR STOCKTON

The City of Stockton has commissioned architect Peter L. Sala of Stockton to draw plans and specifications for the construction of a new Library Building.

Estimated cost of the 2-story and basement, reinforced concrete building is $1,250,000.

SUNDAY SCHOOL FUNDS RAISED

A campaign designed to raise funds for the construction of a Sunday school building in conjunction with the Methodist Church in Woodland has resulted in a fund of $60,000.

Work will start immediately.

ARMY HOUSING AT TRACY

Under provisions of the Wherry Act, a group of 52-units are being constructed at the Sharp General Depot, Tracy, California, comprising 8 one-bedroom multiple units; 32 two-bedroom single units, and 12 three-bedroom single units.

Similarly a group of 44 housing units

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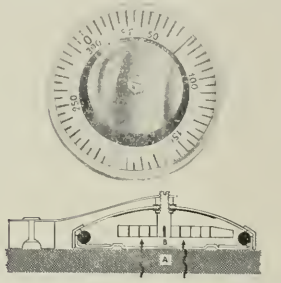
are being built at Lathrop to serve the same Depot. The Lathrop project consists of 6 one-bedroom multiple units; 28 two-bedroom single units, and 10 three-bedroom single units.

Baravetto and Thomas of Sacramento are the architects.

NEW SURFACE THERMOMETER

A new surface temperature themometer for fast and accurate checking of the outside temperature of pipes, plastic dies, and rubber molds; for checking external temperatures for wall leakage of refrigerators, cold chambers, and freezers; for checking the temperature of journals and other bearings, electric motors, and cylinder blocks;



also for checking residential and industrial wall, ceiling and floor temperatures has been announced by the Pacific Transducer Company of Los Angeles.

The instrument is easily affixed to any flat surface. Its range is from 0 to 300 degrees F, calibrated in 2 degree increments.

OPENS NEW BRANCH STORE IN OMAHA

The Jamison Cold Storage Door Company of Hagerstown, Maryland, has opened a new direct branch office in Omaha, Nebraska, under direction of A. C. Hoffbauer.

Nebraska, South Dakota and Iowa will be served by the offices.

CHAPEL FOR FRESNO

The Roman Catholic Diocese of Monterey-Fresno, is building a new Chapel at St. Johns Cathedral in Fresno according to a recent announcement.

Midstate Construction Company is the contractor and cost of the work is estimated at $100,000.

GOVERNMENT HOUSING

The U. S. Corps of Engineers in San Francisco has announced start of construction of 125 housing units at the Sierra Ordnance Depot at Herlong in Lassen County, California.

Ferris & Erskine of Reno, Nevada, are the architects; and the Sierra Homes Inc., Reno, is the sponsor of the project which is estimated will cost $1,245,755.

SANTA CRUZ BRANCH BANK

The First National Bank of Santa Cruz County has purchased a site in the City of Santa Cruz for erection of a new, modern, branch bank building.

Estimated cost of the project is $100,000.

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FEBRUARY 1952

THE LONG AUGUST NIGHT WAS HOT—but not as hot as the bitter fighting that raged about Agok, Korea, in the Naktong River area. Sergeant Kouma, serving as tank commander, was covering the withdrawal of infantry units from the front. Discovering that his tank was the only obstacle in the path of an enemy breakthrough, Sergeant Kouma waged a furious

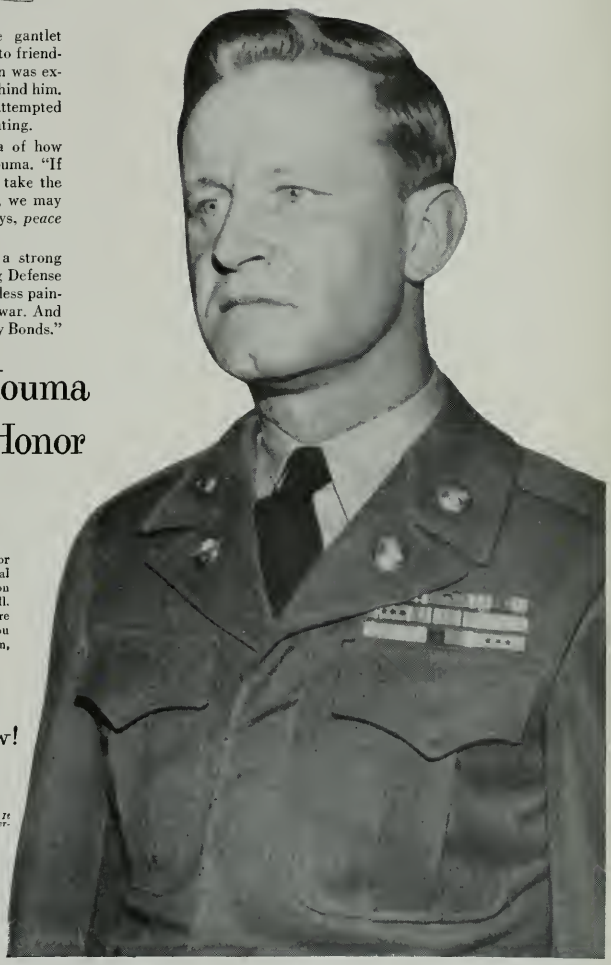
nine-hour battle, running an eight-mile gantlet through enemy lines. He finally withdrew to friendly lines, but not until after his ammunition was exhausted and he had left 250 enemy dead behind him. Even then, although wounded twice, he attempted to resupply his tank and return to the fighting.

"A withdrawing action is not my idea of how Americans should fight," says Ernest Kouma. "If we must fight, let's be strong enough to take the offensive. In fact, *if we're strong enough*, we may not have to fight at all. Because, nowadays, *peace is for the strong.*

"So let's build our strength—to keep a strong America at peace. You can help by buying Defense Bonds—as many as you can afford. It's far less painful to build for peace than to destroy in war. And *peace* is what you're building when you buy Bonds."

M/Sgt. Ernest R. Kouma

Medal of Honor



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• ARCHITECT AND ENGINEER

Vol. 188 No. 2

ARCHITECTS' REPORTS—Published Daily

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Book Reviews

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COVER PICTURE

FOUR MODERN INTERIORS
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Among the outstanding Design and Color Consultants of the West is Klaus Pfeffer of Berkeley, California.

Presented in this issue is a group of four modern interiors, showing the versatility of Mr. Pfeffer in meeting each problem with pronounced individuality. For complete details see page 15.

Photographs by ERNEST BRAUN, pages 15, 16, 17; BARRY EVANS, pages 18, 20, 21, and Cover; and CLYDE H. SUNDERLAND, pages 19, 22, 23.

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. EDITORIAL NOTES .

DEMOCRACY IN ACTION

The acquittal recently of two national paint manufacturers on charges of violating the Sherman anti-trust laws is an incident of more than passing interest.

Litigation was started in July, 1948, when the U. S. Justice Department obtained indictments against thirteen paint companies and twenty-one of their officials, charging them with conspiracy to fix paint prices, discounts, and allowances.

Twelve of the firms and twenty of the individuals pleaded "nolo contendere" and were fined $5,000 each, and the individuals paid fines ranging from $1,000 to $3,500.

E. I. du Pont de Nemours and the Glidden Company fought the indictment and the fifty-day trial in which the jury returned their verdict of acquittal, after six hours of deliberation, resulted.

Dwight P. Joyce, Glidden president, points out "we could have pleaded nolo contendere and paid a fine of $5,000 just to avoid the problems and expense of a court trial, but our belief in justice prompted us to make the fight." It is estimated that attorney fees, together with other costs exceeded $100,000, however, Joyce declared "It is well worth the $95,000 to take the stigma off the company name."

It should be reassuring to many to learn there remain top executives in industry who feel rights as individuals, or firms, are worth defending, and that a conflict between government and private interest does not necessarily mean any actual violation of the law.

The two firms acquitted in this instance are to be commended for exercising their prerogative to question a government charge of law violation, and it is also reassuring that a jury of unbiased citizens agreed with the defendants.

It is a worthy example of Democracy in Action.

* * *

FHA insured mortgages total over $200-million have been authorized at Wherry Act projects near military installations scattered throughout twenty-five states and providing homes for more than 25,000 families of military personnel.

* * *

GI LOANS LIMITED TO USA

A question was recently submitted to the Veterans Administration office in Los Angeles, California, by a veteran who said he was planning to take a job in a foreign country and wanted to know:

"May I use my GI loan benefit as a help toward buying a house for myself and my family to live in on the other side of the ocean?"

The VA replied: "No, that cannot be done. Under the law, GI loans may only be used to buy homes in the United States, or its territories and possessions.

In all probability the VA representative having the temerity to quote the "law" will be charged with being an isolationist.

* * *

New housing during 1951 consumed an estimated 2,091,000 tons of steel as compared with non-residential construction of 13,000,000 tons.

MARK DANIELS, A.I.A.

Private funeral services were held in San Francisco, January 17, 1952, for Mark Daniels, 70, former Assistant Secretary of the Interior, California architect and Landscape Engineer, and Associate Editor of Architect and Engineer magazine, who died January 14, 1952 in a San Francisco hospital following a long illness.

A graduate of the University of California, Mr. Daniels first gained attention as the designer of many of the roads and vistas in Yosemite National Park. Later he was Assistant Secretary of the Interior under President Wilson.

He designed the Pebble Beach golf course, on the Monterey Peninsula, the Santa Cruz Municipal Auditorium, Mt. St. Mary's College, Los Angeles, and the estates of the late John McCormack and Douglas Fairbanks.

As State landscape architect of California he designed many of the grounds on Treasure Island for the Golden Gate International Exposition. His most recent work was as senior architect on the original plans for the Ping Yuen housing project in Chinatown.

Mr. Daniels was a member of the Bohemian Club and the Family Club. He served with United States Engineers in World War I.

He is survived by his widow, Ruth, of 115 Buckingham Way; a sister, Mrs. Zua Leo, and a stepson, Henry Anderson.

One of a series of outstanding creations by Northern California Architects utilizing Colorful Clay Brick.

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JOINT INFORMATION COMMITTEE

AMERICAN INSTITUTE OF ARCHITECTS and THE PRODUCERS COUNCIL, INC.

Further information has been received from the subsequent meeting of the JOINT INFORMATION COMMITTEE of the American Institute of Architects and the Producers' Council which was held January 14, 1952 at the American Standards Association in New York. Again we have been allowed to review the minutes of this meeting and are reporting as much as this space will allow of the procedures and decisions. The report of the Committee appointed November 15, 1951 to study the Card File or Loose-Leaf Specification Service was given by Mr. Charles M. Mortensen, Producers' Council, who stated that two meetings had been held in Washington at which details of the program had been discussed and a tentative budget formulated.

Representing the Construction Specifications Institute Mr. Carl J. Ebert, President C.S.I. and Mr. Harold R. Sleeper, F.A.I.A., C.S.I., expressed their personal interest, and the interest of that organization in the proposed specification service and a desire to cooperate in every possible way to insure its accomplishment. They pointed out the need for and value of such a service and the unusual specification writing talent available in the membership of THE CONSTRUCTION SPECIFICATIONS INSTITUTE.

Mr. Sleeper agreed with Co-Chairman Lessing W. Williams', A.I.A., suggestion, that specification committees should contain representatives from various sections of the country. It was suggested that on the basis of carefully prepared material, which would indicate the character and scope of the proposed service, it should be possible to obtain advance orders and committments from industry and individual architects.

The following quotes are abstracted from the report prepared by Mr. Walter Taylor, Director of Education and Research, A.I.A., presented to the meeting as—OUTLINE OF PROPOSED SPECIFICATION SERVICE. "TITLE—Construction Specification Service—A.I.A.-C.S.I. Auspices—Sponsored by The American Institute of Architects and The Construction Specifications Institute, with collaboration of The Producers Council, and published on service subscription basis by The A.I.A.

"Purposes—To provide to architects and other design professions, convenient, reliable, up-to-date data to be used in the preparation of specifications. While valuable and useful to all architects and engineers, it will be specially useful in the numerically preponderant smaller offices and to younger practitioners of limited experience in specification writing, and to offices located in areas where technical assistance by consultants and industry specialists is not conveniently available.

"What it is not—It is not a method or system or theory of specifications. It is not a hand book on how to write specifications, but indicates what to write. It is not product literature of advertising. It is not intended to relieve the architect of the responsibility of deciding what materials, equipment and methods he will use, but will aid him in specifying whatever he has selected for the particular job. It is not throw-away work sheets.

"Description—The service will consist essentially of a file of cards (or loose leaf pages) containing concise and carefully edited specification paragraphs, with alternatives for optional types of material and method, of two general types: (1) Basic Construction Specifications (on white cards) for optimum good quality construction in terms of standard materials generally available. Wherever possible, nationally approved specifications originating with technical societies and trade associations will be used, edited for simplicity and impartiality with reference to proprietary products. (2) Special Specification material (on colored cards) provided by trade associations (one color) or individual manufacturers (another color) to cover special types of products or special construction methods for the same, or particular qualities differentiating the product or its use from the average or standard of the same general type, not covered by the basic specification.

"The Producers' Council will assist in original and continuous promotion and securing advance fees for participation, in establishing contacts with technical personnel of trade associations and companies."

Following the general discussion of this report the following action was unanimously taken: RESOLVED: That the Progress Report of the Special Committee be accepted, with thanks, and the Committee be requested to give further study and consideration to the project, for the purpose of preparing material to show the general character and scope of the proposed service.

NOTE: This news space is being contributed by ARCHITECT & ENGINEER Magazine to the JOINT INFORMATION COMMITTEE representing the Northern California Chapter of The American Institute of Architects and the Northern California Chapter of the Producer's Council, Inc., and is available to this Committee for the purpose of bringing to the attention of leaders within the Construction Industry various phases of the Architectural profession and building materials industry procedures for general consideration and comment. Your "ideas" and any suggestions for the better pooling of thoughts along these lines should be sent to "Joint Information Committee, c/o The Architect & Engineer. 68 Post Street, San Francisco," where they will be immediately forwarded to proper committee members.

NEWS and COMMENT ON ART

CALIFORNIA PALACE OF THE LEGION OF HONOR

The California Palace of the Legion of Honor, Lincoln Park, San Francisco, is observing the 5th Annual Exhibition of Contemporary American Painting during February and, according to Thomas Carr Howe, Jr., director of the museum, the exhibition represents one of the finest events offered to the public.

PORTLAND ART MUSEUM

Thomas C. Colt, Jr., director of the Portland Art Museum, West Park and Madison, announces a number of special events for the museum during the early part of the new year.

"Two major developments in Museum and School policy have been given long study, with the result that we are able to announce new directions with the new year," reports Colt. The Museum's Art Policy will observe greater attention to exhibitions and accessions, to historic art which gives richness and background to western culture, and to European heritage in the arts from the Middle Ages onward.

Other augmented programs will include School Alumni Activities in which students will reactivate their interests with the Museum.

Four paintings were given to the Museum recently by Jan de Graaff. They are: Composition With Stripes, a fresco relief by George L. K. Morris; Fish, termpera on gesso by Charles Heaney; Harlem Street, gouache by Jacob Lawrence, and a gouache (untitled) by Alexander Clader. All were painted in the 1940's. Additional print purchases from the Oregon Print Annual, authorized by the Board of Trustees at the December meeting are: Self Portrait and Dark Lake, lithographs by William Givler; We Have A Balloon, lithograph by Demetrois G. Jameson; Woman With Fur, woodcut by Jane W. Haseltine; Deposition, lithograph by James Phillips; Neighbor, woodcut by Manuel Izquierdo; and Bird, monoprint by Amanda Snyder. Seven West Coast Indian baskets were given the Museum by Miss Alice Kendall.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, is presenting a number of outstanding events and exhibits for the month of February.

Among the special Exhibits are: Drawings and Watercolors by Hannah Weber-Sachs, Theodore Brenson, and Margo Hoff; Twentieth Century Master Movements (Cubism, Futurism) — Museum of Modern Art Exhibition; Vincent Van Gogh, Artist —AFA Exhibition; Matthew Barnes Memorial Exhibition; Eleven Dutch Print Makers—AFA Exhibition; Block Paintings by Charles Smith; Rental Gallery exhibitions; Carvers, Modelers, and Welders—Museum of Modern Art Exhibition; 71st Annual Exhibition of Painting and Sculpture of the

SAN FRANCISCO MUSEUM OF ART

Civic Center, San Francisco

LA CRUCHE FLEURIE, Oil

By Pablo Picasso

Collection of the San Francisco Museum of Art, gift of W. W. Crocker.

San Francisco Art Association and "Showbox" an exhibit of the work of children from the Arizona Indian Reservations.

Concerts on February 18th and 28th will feature the "California String Quartet," and the Weiner-Shorr Sonata Recital, respectively.

A group of lectures will include the Mathews Barnes Memorial Exhibition by Anneliese Hoyer, February 3; Permanent and Loan Collections by Clifford Peterson, February 10; Cubism, Futurism by Anneliese Hoyer, February 17; and the 71st Annual Oil and Sculpture Exhibition by Barbara Fitzwilliams on February 24. The Monday evening series on "Art of Today" will include Expressionism in Germany, Surrealism, Abstract Art, and Modern Sculpture.

Gallery tours will be conducted each Sunday at 2:15 p.m.

Special art classes include the Sketch Club on Friday evenings; a Painting Class on Friday evenings; and Children's Classes each Saturday morning at 10 a.m.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, has scheduled a number of special exhibitions and events for the month of February, in addition to the regular exhibit of permanent collections.

In the Museum's educational program courses in the study of Art and Ideas are being held and a new series "Painting For Pleasure" will start in April. These classes together with the "Workshop" are designed to develop observation and appreciation in Art for adults.

The Children's activities include Drawing and Painting for youngsters 4 to 10 years old each Saturday morning 10:15 to 11:30. A class in Picture Making, for students 10 to 15 years old is held each Friday 3:30 to 5:00 p.m., consists of drawing of works in the museum galleries for the practice of observation.

UNIVERSITY OF FLORIDA WINTER EXHIBITION

A diversified group of special exhibitions for the Winter-1952 have been announced by the University of Florida, Gainesville, Florida, and will be held in the Foyer of Building "E".

Included in the exhibits are: Experimental Photography from the Museum of Modern Art, New York; Student Work of the Department of Art, University of Florida; a prize winning Design of Garden Type Apartments; the American Institute of Architects National Honor Awards—1951, through courtesy of the American Federation of Art, Washington, D. C.; Architectural Designs and Sketches by Rudolf Frankel; Paintings by the Director, Harry Hershey, Art School of the Ozarks, Eureka Springs, Arkansas; Student Work by the Department of Architecture, University of Florida; Contemporary Arts, Paintings from Contemporary Arts, Inc., New York; and Twenty American Paintings, from International Business Machines Collections.

SAN FRANCISCO ART ASSOCIATION

Among the Board of Directors selected at the recent election, were Robert Bach and Richard O'Hanlon, Artist representatives; Ellen Bransten, William W. Crocker, Hector Escobosa, Mrs. Walter A. Hass, and Mrs. Turner McBaine, Lay representatives. Each will serve for a term of three years.

Frederick P. Vickery, formerly director of the E. B. Crocker Art Gallery, Sacramento, has been appointed director of the Montalvo Foundation.

Dates for the 16th Drawing and Print Award have been set for May 9 to June 3.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan will offer a number of paintings by Caroline Martin and Hamilton Wolf during February. Also exhibited will be Sculpture by Elah Hale Hays.

The Pictures of the Month will feature French Paintings recently arrived including "Flowers" by Brandel, "Plage Honfleur" by Gran Sala, "Moulin de la Galette" by Gall, and a number of others.

PACIFIC ARTS ASSOCIATION TO CONVENE IN LOS ANGELES

The Pacific Arts Association has announced it will hold a three day convention at the University of California at Los Angeles, starting on April 5.

The organization represents a large membership among the professional artists, craftsmen, and art educators representing the eleven western states and is the western regional division of the National Art Education Association, a non-profit organization designed to promote art and art education.

It is the 27th Annual Convention of the Pacific Arts Association and advance registrations indicate a record membership will attend the three day conferences.

SCHOOL PLANNING

STUDY REPORT RECOMMENDS MORE CONSIDERATION OF SPACE AND EQUIPMENT

Elementary schools now being planned should include more space and educational equipment to help children develop better socially and emotionally, as well as mentally, it is recommended in a report just released by the Committee on School Buildings of the Metropolitan School Study Council, a research affiliate of Teachers College, Columbia University. The committee declares that the structural features it advocates for the modern elementary school "are in harmony with the emerging design of education."

The committee, composed of teachers and administrators in seventy-one school systems in the metropolitan New York City area, prepared the report, "Designing the Elementary School," for boards of education, school executives and interested citizens who will be planning this type of school in the near future.

Larger classrooms, providing forty to fifty square feet of space per pupil—twenty-four square feet is the average allotment at present—specially equipped rooms for the arts and sciences, conferences rooms for school administrators, health and guidance officials, and multi-purpose gymnasiums and auditoriums, the committee declares, should be the principal features of the new elementary school.

To permit children to learn by experience and from first-hand observation, larger play and work areas, in and out of the classroom, are needed. Certain lessons in biology, for example, can be illustrated by garden or plant-care projects in the room. Increased use of audio-visual materials, the committee asserts, will require more storage space and such additional features as a music room, where several classes or groups can use the equipment at one time.

"Each school building must be tailored to serve the specific needs of its school community," the report points out. "To provide for a growing, living program, school buildings must be planned for greater flexibility. Parking facilities, wide and safe driveways, multi-purpose rooms that can be used for adult-education classes or community meetings, should be included in planning a school that will be sensitive to commuity needs as well as to the growth of children."

Not a technical blueprint for professional builders or architects, the report is addressed to "school planners who are looking for types of physical facilities suggested by current trends in educational practice." Many of the committee members played important roles in school-building programs in their own communities.

The report observes that roomier classrooms will be needed in future schools to provide adequate space, first, for modern teaching materials—such as pianos, workbenches, science equipment, art easels—and second, for play areas and group work.

"Children in the lower grades are basically active, need space to move around and to experiment with many types of materials," it is noted. Classrooms for older girls and boys should be as large as those for younger children. Although they may not be using play corners, they will need space for group conferences, dramatizations, for making maps and models, and for other selected activities that help them learn by experience."

Traditional blackboards, covering one or more sides of the room, should be replaced by chalkboards in colors that prevent glare and eyestrain. By using one or two sections of a board, the remaining wall space can be used for bulletin boards for displays or announcements.

Slant-top desks with screwed-down chairs are bad physchologically and from the standpoint of learning, the report maintains. Separate desk with flat tops and detached chairs provide for greater usefulness and flexibility, and "light colors, dull finishes, and steel legs are desirable for easy maintenance, strength and lighting."

Educational trends may radically change the shape of the classroom. Architects should design the school room to facilitate teacher supervision and to make possible the best kind of lighting. A room may take a hexagonal form if it will mean better education for the pupils in it, the report advises.

A unit of special rooms, fitted with shop, science and art equipment, is recommended by the committee for laboratory study in these fields. The shop, with machinery and tools for clay, wood or metal work, can be used as a workshop where children can use materials and solve problems too complicated for classroom work. It can also be used for adult crafts classes at night.

(See page 38)

Australian Official Photographs by JACK GALLAGHER

ULTRA MODERN AUSTRALIAN APARTMENT BUILDING

MELBOURNE, AUSTRALIA

FREDERICK ROMBERG, Architect

By JOHN LOUGHLIN

Australian architectural circles have been excited by the completion of Melbourne's newest apartment block—a distinctive nine-storied ultra-modern building with the smooth flowing lines of a luxury ocean liner.

Appearance of any large new apartment block is a sufficiently rare event in Australia under present conditions to attract attention.

"Stanhill", built to the design of Frederick Romberg, Melbourne architect, with many advanced features in apartment block design, strikes a refreshingly new note.

To the local eye the approach is unusual, even mildly startling. It is as different from sombre conventional apartment blocks familiar to Australians as, say, Debussy is from the Poet and Peasant Overture.

The difference comes not from any eccentricities of style, but from the fact that there are so few examples of contemporary design in apartment

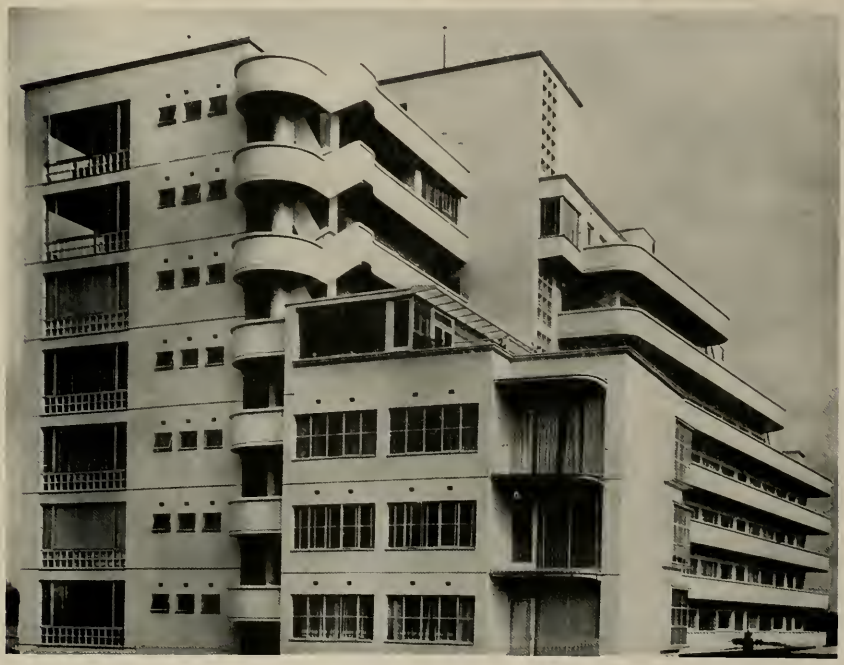
building construction in Australian cities that "Stanhill" is the first many people have seen outside the glossier magazines.

This is due to the concentration of building resources on the bread-and-butter job of building houses as fast as possible to relieve the acute national housing shortage. Pressure on building materials and labor is severe. They are channelled to the private and Government large-scale home building schemes almost completely to the exclusion of apartment house construction.

There are critics who see a more effective approach to the accommodation problem in building more apartment houses and fewer single units—in building upwards instead of spreading outwards. But the average Australian prefers his own house and his own patch of garden to living in an

CURVES and right angles contrast pleasingly in design with balconies on the right providing access to each of the apartments.

BELOW: Apartment block is a glowing white composition of flowing lines and contrasting angles of reinforced concrete and glass.



ABOVE—The larger apartments combine professional rooms and private accomodations. This large room with fluted columns and wide expanse of glass wall is furnished as a board room with expanding view.

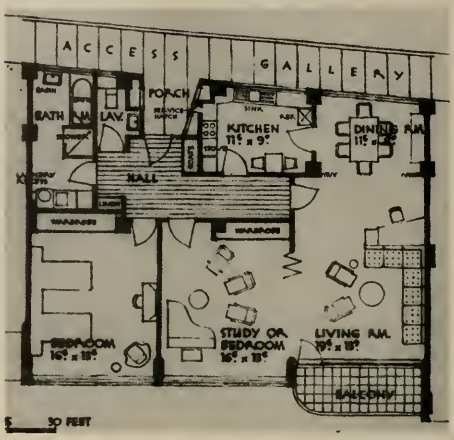
BELOW—Novel setting in a "studio" of a "Stanhill" apartment. It has a parquet floor, wrought iron furnishings, full walls of glass on the south and west sides, and a cocktail cabinet on the right.

apartment—or so the authorities in charge of housing schemes believe.

This is especially true in Melbourne, where there has been practically no big apartment house construction since the war. It is discouraged to some extent by building regulations which, among other things, fix height limits varying with different localities. Examples of contemporary Continental and Scandinavian apartment building architecture are to be seen only rarely.

"Stanhill" is a milestone in Australian architecture. It is a gleaming white composition in reinforced concrete and glass of graceful sweeping lines and contrasting stark cubist wings. It is a block of 31 suites, with administrative offices, and on the ground level, a dining room, beauty salon, garages, and shopping center.

The owners gave the architect a free hand, specifying only an ultra-modern design with the greatest possible natural lighting.



ABOVE—Typical plan of a standard apartment. Entire walls of glass for the two bedrooms and living room provide attractive views over park and Port Phillip Bay.

BELOW—Living room of a standard apartment showing dinette. Color schemes in the various apartments use contrasting pastel shades for walls and ceilings.

Purely local conditions dictated some aspects of the design. The dominant feature is a series of open concrete balconies sweeping along the northern exterior at eight floor levels, and giving access to the apartments. Romberg was able to make an architectural virtue from an irksome building regulation prescribing two fire exits for each apartment. There is a central elevator exit and a spiral stairway at each end of the balcony.

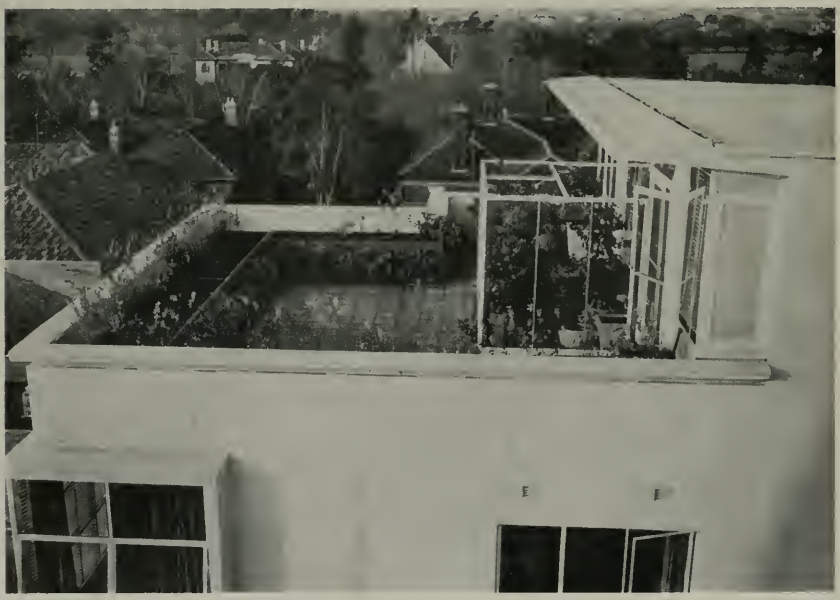
It is the flowing lines of the balcony parapets with the two upper floors stepped back, that give the distinctive illusion of ocean liner decks and superstructure. Monotony of flowing lines is broken up by the wholly pleasing contrast with the sheer surfaces of a rectangular central block, and the angular treatment of penthouse apartments.

On the south aspect an almost entire glass surface rises sheer from the ground, with no ornamentation on the white concrete framework except the small, private, railed balcony to each apartment. The suites extend right across the main wing to gain both north and south light.

(See page 38)

Flowing lines of building is heightened by stairway from an upper deck, giving illusion of a luxury liner ladder to captain's bridge.

BELOW—Some of the apartments have private roof gardens where tenants can sun-bake and enjoy the outdoors.



SOMMER APARTMENT *ERNEST BRAUN PHOTO*

FOUR MODERN INTERIORS

DESIGNED BY KLAUS PFEFFER

DESIGN and COLOR CONSULTANT

BERKELEY, CALIFORNIA

CUSTOM MADE COPPER CHAIRS BY BON & VAZA MARTIN ON TERRACE OVERLOOKING BAY BRIDGE

TELEGRAPH HILL APARTMENT

FOR MR. MAX H. SOMMER

Interiors by Klaus Pfeffer and Associate Pearl Bank Steward

An extensive library and a distinguished collection of modern furniture, pictures and accessories, gradually acquired over a period of two decades, make a highly individual home of these spacious bachelor quarters overlooking a sweeping view of San Francisco Bay.

EMILY THOMPSON, Decorator

ERNEST BRAUN, Photos
Courtesy SAN FRANCISCO CHRONICLE

BUILT IN SHELVES AND CABINETS PROVIDE CONVENIENT STORAGE SPACE WITHIN EASY REACH OF THE BED

CUSTOM MADE GLASS TOPPED DESK IN BEDROOM

TRIPLE CHEST AGAINST CURVED WALL OF DRESSING ROOM

BARRY EVANS PHOTO Courtesy SUNSET MAGAZINE

REMODELLED DINING ROOM

IN A TWENTY-FIVE YEAR OLD BERKELEY HOME

Built in units and panelling of honey colored birch glow warmly against walls and ceiling painted chocolate brown. Mirrored cabinet designed by Klaus Pfeffer to display an important collection of European pottery. Hardware, lighting fixtures and plant boxes are copper.

DORIS CONNER, A.I.D., Decorator

CLYDE SUNDERLAND PHOTO Courtesy BETTER HOMES and GARDENS

CUSTOM MADE FURNITURE and BUILT IN UNITS
by FRANK HOWE DE WITT

HANDWOVEN FABRICS by VESTA VETTER

BARRY EVANS PHOTOS Courtesy SUNSET MAGAZINE

LIVING and DINING ROOM

FOR MR. and MRS. C. B. WALLACE
EL CERRITO, CALIFORNIA

Interiors by Klaus Pfeffer and Associate Pearl Bank Steward

Simple lines of custom made furniture focus attention on handsome architectural proportions of this room and on its spectacular views. Muted colors of handwoven fabrics accent wood grain of elm panelled walls.

CUSTOM MADE FURNITURE by MERRILL BECKWITH
HANDWOVEN FABRICS by VESTA VETTER

SWIVEL CHAIRS TURNED TO FACE VIEW WINDOWS

ARCHITECT
KERMIT PAULSON

DINING CORNER

CONVERSATION GROUP IN WINDOW CORNER FOR MOMENTS OF RELAXATION.

REMODELLED STUDY

FOR DR. and MRS. ROBERT D. BRIGHT
BERKELEY, CALIFORNIA

Twin desks designed by Klaus Pfeffer for opposite corners of room provide functional working areas for two people. Each has its own book shelves, drawer space and typewriter area. Tapa cloth paper from TROPICRAFT accents wall strip between desk and shelves and is repeated on waste paper baskets.

CLYDE SUNDERLAND PHOTOS Courtesy BETTER HOMES and GARDENS

BURNED CLAY HOLLOW TILE IN MODERN CONSTRUCTION

By J. B. CRAWFORD, Vice-President
Kraftile Company, Niles, California

Walls of hollow tile, in various shapes and colors, have been doing a "strip tease" for modern construction during the past decade. Gradually shedding their traditional finish dressings of plaster, paint, or canvas, hollow tile walls are being presented "au naturel" in more and more modern structures. The increasing appreciation of the decorative as well as the functional qualities of burned clay tile make it acceptable today as the complete wall material for many applications, eliminating the time and expense of applying finishes of various sorts.

Progress in Clay Tile Manufacture

What is basically different about burned clay tile today? Principally refinements in manufacture.

Vacuum treatment of the plastic clays in the forming process prior to firing helps produce a dense, void-free product. This, coupled with better firing control, results in a stronger tile and greater uniformity in production. Of particular interest to the architect is the change to more appealing and more practical unit dimensions. However, most important architecturally is the development of ceramic glazed surfaces to make a refined finish on what was formerly only a structural wall material. As a result of these refinements, the traditional burned clay tile—structural core of many a partition or curtain wall—now sheds its shroud of plaster and paint to emerge in its own attractive array of colors and textures.

Combination of Structural and Decorative Qualities Vastly Extends Usage of Clay Tile

Structurally, glazed and unglazed hollow tile are used today in the same manner and for the same purpose. Among the functional applications are:

1. Fireproofing of structural steel.
2. Partitions and interior walls.
3. Furring or moisture-proofing of concrete and masonry walls.

(See page 34)

WALL UNITS

Installed in the Rath Packing Company San Francisco.

CLEAR AND CERAMIC glazed Structural Units installed in the American Radiator & Standard Sanitary Corpn. plant at Torrance, California. Prack & Prack, Architects

CLEAR glazed Structural Units used in girls' shower and dressing room of South East Junior-Senior High School in San Diego, California. Sam W. Hamill, Architect.

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Montana Chapter:
E. Edward Scowcraft, President (Billings); J. Van Teylingen, Vice-President (Great Falls); H. C. Cheever, Secretary-Treasurer. Secretary office, Bozeman.

CENTRAL VALLEY CHAPTER ELECTS NEW OFFICERS

John W. Bomberger, A.I.A. Architect of Modesto, was elected president of the Central Valley Chapter of The American Institute of Architects at the annual meeting of the organization, recently held in Sacramento.

Other officers chosen to serve during the ensuing year included Nicholas Tomich, A.I.A., Sacramento, Vice-President; Albert B. Thomas, A.I.A., Sacramento, Secretary; Ted de Wolf, A.I.A., Stockton, Treasurer; and Gordon Stafford, A.I.A., Sacramento, Director.

Silvio Barovetto, A.I.A., of Sacramento, was named as the Alternate Representative of the Centarl Valley Chapter to the California Council of Architects, the state-wide organization representing various A.I.A. Chapters throughout California.

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CALIFORNIA COUNCIL OF ARCHITECTS

Architects were given an opportunity to tell their story to "law makers" recently when representatives of the California Council of Architects, representing various Chapters throughout the state, appeared before members of the State Assembly Interim Committee who are making a study of governmental efficiency and economy.

It was pointed out that great waste of public funds resulted from overlapping and conflict of building jurisdictions and regulations and it was suggested that the state legislators enact remedial legislation to correct this annual waste of construction funds.

WASHINGTON STATE CHAPTER

Regional Director Irving G. Smith, on his way to an A.I.A. Board of Directors meeting in Washington, D. C., participated in the February meeting which was devoted to a consideration of "Architecture—Business or Art," "Tacoma—Is It Architecture," and "What About the A.I.A.?"

In addition to highly informed speakers discussing the above subjects, a motion picture entitled "The City," representing a fine documentary film on city planning, was shown.

Nevada Chapter:
George L. F. O'Brien, President; Aloysius McDonald, Vice-President; Graham Erskine, Secretary; Edward S. Parsons, Treasurer. Offices 160 Chestnut St., Reno.

Nevada State Board of Architects:
L. A. Ferris, President, Reno; Walter Zick, Secretary, Las Vegas; Directors, Aloysius MacDonald, Las Vegas; Russell Mills and Edward Oarsons, Reno. Office, P. O. Box 2107, Las Vegas, Nevada.

Pasadena Chapter:
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Producers' Council—Southern California Chapter:
Harold F. Smith, President, Gladding, McBean & Co.; Bert Taylor, Vice-Pres., Pittsburgh Plate Glass Co.; Richard Seaman, Sec., W. P. Fuller Co.; Clay Snider, Treas., Minneapolis-Honeywell.

Producers' Council—Northern California Chapter (See Special Page)

The University of Washington School of Architecture "Atelier" Annual Architects' Costume Ball, held February 15, was devoted to the theme of "Forbidden Fantasy."

Bowling activities center around Bouillon-Griffith No. 1, and Harmon, Pray, Detrich teams with a number of others in close competition for top honors.

CHARLES E. FRY ELECTED PRESIDENT SC ARCHITECTS

Charles E. Fry, A.I.A., member of the architectural firm of Austin, Field and Fry, Los Angeles, has been elected president of the Southern California Chapter of The American Institute of Architects, succeeding John J. Landon.

CHARLES E. FRY
President SCC-AIA

A resident of San Gabriel, Fry is a native Californian. He graduated from Manual Arts High School and the University of Southern California, School of Architecture. He served as a Lieutenant Colonel in the USAF Reserve and at present is commanding officer of the 9354 Volunteer Air Training Unit.

Other officers elected for the ensuing year include Henry L. Wright, firm of Kistner, Curtis & Wright, vice-president; C. Day Woodford, Glendale, secretary; Robert Thomas, firm of McFarland, Bonsall & Thomas of Victorville, treasurer; and S. Kenneth Johnson, Manhattan Beach; Kemper Nomland, Pasadena; William B. Balch, La Canada; and John J. Landon, North Hollywood, Directors.

SOUTHERN CALIFORNIA CHAPTER

Dr. Neil H. Jacoby, Dean of the School of Business Administration at the University of California at Los Angeles, was the principal speaker at the February meeting. His subject was "Economics of the Construction Industry in Southern California," and his background of participation in the University of Chicago's Round Table Broadcasts,

(See page 32)

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Structural Engineers Association of Northern California
John E. Rinne, President; John J. Gould, Vice-President; Wm. W. Brewer, Sec.; Franklin P. Ulrich, Treas.; Directors, Walter L. Dickey, Leslie W. Graham, Hyman Rosenthal, and Howard A. Schirmer.

Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

John C. W. Carroll, president of the Prestressed Concrete Corpn. of Kansas City, and developer of the method currently used by his company for prestressed concrete construction, was the chief speaker at the February meeting, held in the Alexandria Hotel, Los Angeles.

Carroll emphasized the important subject of specifications for wire for prestressing and included an explanation and demonstration of basic design procedure of prestressed concrete. He also described recent developments in anchorage systems. A number of illustrated slides were shown.

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A special meeting was held recently with engineers and representatives of the Los Angeles Board of Education to discuss the grading of 2 x 4's and 2 x 6's, together with other grades and sizes of lumber. The meeting was sponsored by the West Coast Lumbermen's Association.

Among new members recently joining the Association are John A. Majdick, John C. Kariotis, and William D. McEwen, Junior; and Murray Merrin, Harry Bieber, and Robert G. Beer, Associate.

EAST BAY STRUCTURAL ENGINEERS SOCIETY

Appointment of committees and chairmen to spearhead 1952 activities of the East Bay Structural Engineers Society was announced by Ned Clyde, newly inducted president of the Society, following a meeting in Oakland.

Appointments include Berg Huntington, Program; Richard Clark, Membership; Marcus Carlson, Codes; George Taylor, Public Relations; Eric Peterson, Planning of Deferred Projects; and J. Blain Tulloch, Tilt-up Construction.

The executive committee is composed of President Clyde; Berg Huntington, vice president; McGregor Graham, secretary-treasurer; and Robert Dalton.

AMERICAN MILITARY ENGINEERS SAN FRANCISCO POST

The February meeting was devoted to a discussion of engineering problems including the "Career Counseling of Future Engineers," with Dr. Cledo Brunetti, Associate Director, Stanford Research discussing the phase "America Must Have More Engineers."

Dean L. M. K. Boelter, Dean of Engineering, University of California at Los Angeles, spoke on "Technical Manpower—How The Universities Can Meet The Problem"; Dr. Vaughn Sidell, Superintendent, Alameda Public Schools spoke on "Public School's Part in the Preparation for Future Engi-

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Capt. Cushing Phillips, CEC, USN, President; Col. W. C. Baker, Jr., CE, USA, Vice President; Robert P. Cook, Secretary; Levant Brown, Treasurer. Directors: Rear Admiral L. N. Moeller, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bently; Prof. Harmer E. Davis; Lieut. Col. James D. Strong, CE, USA; and Lieut. Col. Henry M. Smalley, CE, USA.

neering Careers"; and Dr. Herbert Clish, Superintendent of San Francisco County Public Schools, discussed "How Engineers Can Help as Career Counselors."

The Annual Dinner Dance has been announced for March 14, and will be held in the Officers Recreational Building, Treasure Island.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

W. W. Davison, vice president of the Standard Oil Company of California, spoke at the February meeting, in San Francisco, on the subject "Our Competitive Free Enterprise System," pointing out that "free enterprise" is not new but is the basis upon which our way of life is founded.

Among recent new members joining the association were Vincent A. Arena and Quong P. Chin, Members; and Cecil H. Wells, Jr., Junior Member.

AMERICAN SOCIETY FOR METALS PUGET SOUND CHAPTER

Reported by L. F. Franz, Boeing Airplane Company

The Puget Sound Chapter of the American Society for Metals presented its first session of the Annual Educational Lectures on January 16. The lectures were presented in the form of an open panel discussion on "Surface Treatments and Finishes for Metals," with Professor Blake Mills, University of Washington, as Moderator.

The first speaker, Professor Gilbert S. Schaller of the University of Washington, spoke on "Machining and Surface Heat Treatment of Carbon and Alloy Steels." Professor Schaller gave several definitions of terms referring to metal finishes and qualities of surfaces and discussed a number of the methods used to obtain the type of finish desired.

The second speaker, Mr. M. L. Schuehle of Boeing Airplane Company, discussed "Chemical and Mechanical Cleaning and Coating of Carbon and Alloy Steels." Mr. Schuehle discussed several of the methods used in cleaning metals and a number of the solutions, materials, or conditions used in chemical, electro-, mechanical, and molten salt bath cleaning methods. He also presented purposes for coatings while discussing the various types of coatings, both temporary and permanent. Mr. Schuehle also explained the vacuum sputter method of applying surface coatings by vaporizing certain metals or alloys so they will permeate and cover the surface of the part to be finished.

John E. Fowler of Eagle Metals Company discussed "Surface Treatments and Finishes for Stainless Steels." Mr. Fowler explained several of the methods of handling the surfaces of the stainless steels. He outlined various factors involved in ma-

(See page 31)

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PRODUCER'S COUNCIL PAGE

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CLASSROOM LIGHTING

This was the subject considered by The Producer's Council Panel No. 4 at the last regular meeting on January 21st at the Palace Hotel in San Francisco.

The panel, enjoyed by a capacity audience of 127, was given in two phases. Phase 1, "The kind of light which is needed in classrooms", was sponsored by the American Structural Products Company and very aptly presented by Mr. Al Baker. The second phase, "Supplementary lighting for the co-ordinated classroom", was equally well presented by Mr. Bob Horner and sponsored by the F. W. Wakefield Brass Company.

It was pointed out that due to present day school activities, it is becoming mandatory that thought be given to the classroom as a whole when considering classroom lighting, both natural and artificial.

The Illuminating Engineering Society for American Standard Practice for School Lighting has recommended certain minimums of lighting brightness and minimums of high brightness contrasts which is the elimination of glare.

Briefly the recommendations for limits of brightness ratios in the schoolroom are as follows.

a) Between the "central visual field" (the seeing task) and immediately adjacent surfaces, such as between task and desk top, with the task and brighter surface—1 to ⅓.

b) Between the "central visual field" (task) and the more remote darker surfaces in the "surrounding visual field", such as between task and floor—1 to 1/10.

c) Between the "central visual field" (task) and the more remote brighter surfaces in the "surrounding visual field", such as between task and ceiling—1 to 10.

d) Between luminaries or windows and surfaces adjacent to them in the visual fields—20 to 1.

Mr. Baker showed how the use of light directing glass blocks installed over ribbon windows afforded good light control from the two basic light sources, the sun and the sky. He also stated that he could not overemphasize the fact that greater attention should be given to sky brightness, regardless of exposure. Ground reflection and shading or reflection from adjacent buildings also must be considered.

In phase 2, Mr. Horner stated that "our problem today is to co-ordinate artificial lighting with modern daylight control and to facilitate three dimensional seeing, and to provide soft modeling shadows to define clearly contours, location, relationship and size."

This can be accomplished by means of luminous indirect equipment using either incandescent or fluorescent lamps. The density of the plastic reflectors on this equipment is controlled to eliminate glare and the illuminated ceiling becomes the principal light source, while the luminous suspended fixture and the properly controlled side walls become the secondary source. We were shown another method of providing a low brightness source for classroom lighting by providing a translucent ceiling through which the light source comes from above.

In closing, Mr. Horner stated that "artificial light should be considered as supplementary in most classrooms" and "should produce no glare either from direct viewing or from the lighted surface".

The meeting was concluded by a brief question and answer period moderated by Mr. Andy Hass, AIA.

USE QUALITY PRODUCTS — THE PRODUCERS' COUNCIL — CONSULT AN ARCHITECT

WITH THE ENGINEERS

(From page 29)

chining, chemical, and heat treating methods of obtaining the desired surface and their effects on corrosion resistance.

A question period followed the discussions.

ILLUMINATING ENGINEERING SOCIETY TO HOLD SAN FRANCISCO CONFERENCE

Industrial and office lighting, with emphasis on increasing the efficiency of defense production, will be featured on the two-day technical conference program of the Illuminating Engineering Society to be held in San Francisco March 13-14. Delegates to the Conference are expected from California, Nevada, Utah, Arizona and Hawaii, with the Northern California Section serving as hosts.

Among the speakers will be Samuel G. Hibben, Director of Applied Lighting of the Westinghouse Electric Corp.'s lamp division at Bloomfield, New Jersey, national president of the Society, who will address the opening session.

Charles R. Long, Los Angeles, Pacific Coast district engineer for Westinghouse lamp division, will review recent developments in filament lamps for industrial use, and F. J. Bailey, Los Angeles, assistant district engineer of the General Electric lamp division, will speak on "Recent Developments in Gaseous Discharge Light Sources."

William P. Lowell of New York, chief commercial engineer of Sylvania Electric Company, will report on the development of luminous glass panels; E. E. Coleman, district engineer, General Electric, Los Angeles, will discuss fluorescent lamp performance; and Harold Gerber, San Francisco consulting engineer, will speak on "Copper Savings Through Improved Industrial Wiring Systems."

A dramatic road show presentation, "Salute to Lighting Progress," from General Electric Company's "University of Light" laboratories at Nela Park, Cleveland, Ohio, will be given Thursday evening by Alston Rogers, Nela Park.

Other speakers will include B. F. Jones, San Francisco, "Glare and Its Control"; H. Wollman, Capital Company, Oakland, "Use of the Integrated Ceiling, With Lighting, and Its Advantages in New Construction"; and George J. Taylor of New York, eastern sales manager of Day-Brite Lighting, Inc., on "Comfort of Seeing in Office Lighting."

A discussion of color in lighting; a report on the lighting of California's new Capitol Annex in Sacramento; and two papers by Willard C. Brown, manager of the engineering department at General Electric's Nela Park lamp laboratories; and a discussion of "Black Light in Industry" by Marcel Vogel of San Francisco will complete the program.

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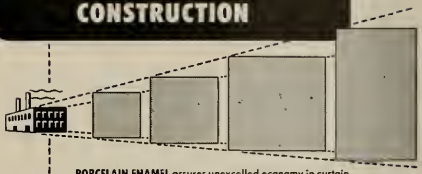

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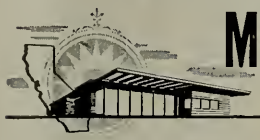

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H. H. Robertson, Pacific Gas and Electric Company, San Francisco, is the conference chairman, and in charge of the program is S. H. Hazleton, northern California district engineer for the General Electric Company. Presiding at various sessions will be the chairman of the southern California Section, Arizona and Utah Chapters of the Society.

FEMINEERS

Brigadier General Dwight F. Johns, Acting Chief, Division of Engineering Service, Office of Civilian Defense, State of California, was the principal speaker at the February meeting held in the Elks Club in San Francisco.

Mrs. C. B. Hopkins served as hostess of the day, with reservations in charge of Mrs. Art Smith, Jr.

A.I.A. ACTIVITIES

(From page 27)

his affiliation with the Committee for Economic Development and the National Bureau of Economic Research of New York provided a keen observation of his analysis of the construction industry throughout southern California.

Naughton Lane, president of the National Producers' Council, also spoke on a few major activi-

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ties of the Producers' Council, and the meeting represented a joint meeting of architects and Producers' Council members.

Consideration was given to the selection of Delegates to the annual convention of the A.I.A. which is to be held in New York City June 24-27.

EAST BAY CHAPTER ELECTS TREICHEL

Chester H. Treichel, A.I.A., Architect of Oakland, was chosen to serve as president of the East Bay Chapter of The American Institute of Architects for the year 1952, at the annual meeting of the Chapter recently held in Oakland.

Other officers elected to serve with President Treichel included Malcolm Reynolds, A.I.A., vice-president; Jack Lloyd, A.I.A., secretary; and Roger Lee, A.I.A., treasurer.

Membership in the Chapter comprises architects in East Bay counties of the San Francisco-Oakland Metropolitan area.

CENTRAL WASHINGTON ARCHITECTURAL SOCIETY

Gene Renard, landscape architect employed by the city of Yakima, spoke at a recent meeting of the Central Washington Architectural Society in Yakima, on the subject "Landscape Architecture."

Renard, a graduate of the Iowa State College, included city planning in his talk and stressed the value of a well rounded program including the architect, landscape architect and city planner.

SAN DIEGO CHAPTER

A number of architectural matters were taken up at the January meeting, including report of the nominating committee; outline of a series of meetings sponsored by W. P. Fuller Co., on "color harmonies"; and a report of the Treasurer and Exhibit Committee.

The exhibit committee suggested a number of unifications in the design and presentation of exhibits which should greatly increase the attractiveness of future architectural exhibits prepared by Chapter members.

LONG BEACH ARCHITECTS

William Lockett, A.I.A., has been elected president of the Long Beach Association of Architects for the year 1952.

Other officers chosen to serve with Lockett include Edward Killingsworth, vice-president; Louis S. Miller, secretary; and Edgar Marrotte, Thomas Russell, Palmer Power and High Gibbs, directors.

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BURNED CLAY HOLLOW TILE IN MODERN CONSTRUCTION

(From page 24)

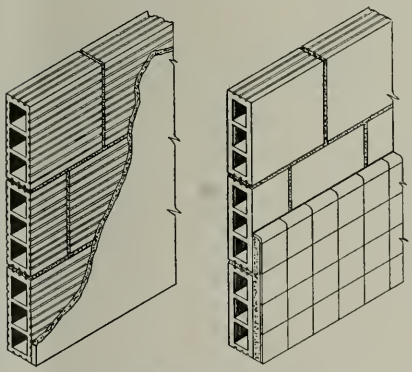
4. Combined with brick for exterior load-bearing or curtain walls.

5. In combination with non-structural masonry veneer materials.

The qualifications of burned clay tile for such applications are eminent:

1. High resistance to sound transmission.
2. Good heat insulation.
3. Absolute resistance to vermin, rats, termites, moisture and rot.
4. Unaffected by age.
5. Perfect bond for cement or plaster finishes.

With the development of today's glazed finishes, hollow tile gains important new qualifications to extend its applications. It offers an impervious finish that is sanitary, easily cleaned, virtually mar and scuff-proof, resistant to most acids and alkalis, and as ageless as the tile itself. The fired-on finish is available in clear and colored glazes, providing interesting textural effects, or in a complete array of colors to match any decorative scheme. The glazed structural wall unit thus provides both the structural wall and a superior finish, in a single material.

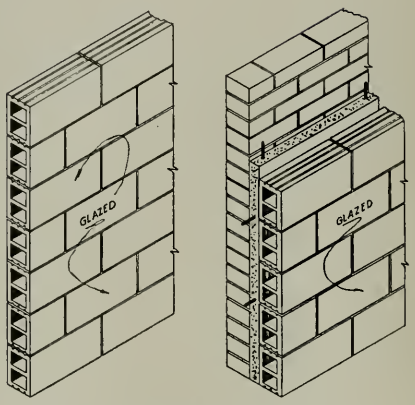


TYPICAL WALL SECTIONS

Partition Tile: Scored and plastered (left).

Partition Tile: With smooth natural brick red finish and wall tile wainscot (right).

Types of glazed wall unit installations tend to follow the logical application of the principle features. The sanitary glazed surface, easily cleaned and unaffected by steam, moisture or repeated scrubbing, make the glazed wall unit especially popular with food plant operators. Today, scores of dairies, canneries, meat packing plants, bakeries, breweries, bottling works and similar food processing plants utilize glazed wall units . . . typical installations are shown in the accompanying photographs.



TYPICAL WALL SECTIONS

Glazed Structural Unit Partition: Glazed surface one or both sides, with clear or colored ceramic glazes (left).

Reinforced Brick-Glazed Structural Unit Load-bearing Wall: Combines exterior and interior finishes (right).

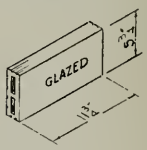
GLAZED STRUCTURAL WALL UNITS

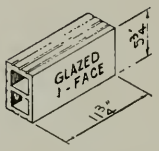
Basic ashlar shapes shown; over 50 shapes of trimmers, coves, and fittings now produced.

FURRING TILE

Glazed one face

thickness—1¾".



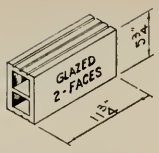


PARTITION TILE

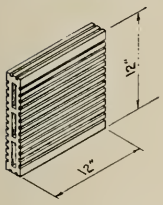
Glazed one face; smooth or scored for plaster on other face. Thicknesses 3¾" and 5¾".

PARTITION TILE

Glazed two faces Thicknesses 3¾" and 5¾".



TERRA COTTA FURRING AND PARTITION TILE (Bosic ashlar shopes shown; 19 standard shapes are made).

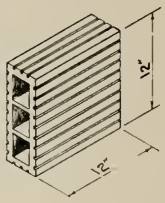


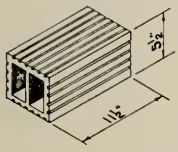
PARTITION AND FURRING TILE

Mode with scored or smaoth face. Thickness, 2 inches

PARTITION AND FURRING TILE

Made with scored or smooth foce. Thicknesses 3", 4" and 6".





LOADBEARING TILE

Thicknesses 4", 6" and 8".

The durability of the glazed finish, its resistance to marring and scuffing, its low maintenance and cleaning costs appeal particularly to institutional and industrial building operators. Schools and other public buildings enjoy substantial maintenance economies where corridors, washrooms, stairwells and similar "heavy traffic" areas are walled with glazed structural units. The long-range economy of the glazed structural wall is finding increasing acceptance in general industry, particularly in rest rooms, cafeterias, laboratories, entries and corridors. In fact, these "walls that never need painting" offer multiple advantages to industry; not only do they reduce maintenance expense to a minimum, but also they provide clean, attractive surroundings to heighten worker morale and impress plant visitors.

Hundreds of young architects today doubtlessly realize the evolution of the traditional structural clay tile into today's combination structural-and-finish material, for it is their demand for a decorative structural material in contemporary design that helped bring it about!

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

HOW TO BUILD WALLS, WALKS, PATIO FLOORS. Lane Publishing Co., Menlo Park, California. Price $1.50

"Walls, Walks, and Patio Floors," a Sunset Book, represents many answers to the challenge of those interested in outdoor living. Whether he has the work done or does it himself, the cost can be high for these items and satisfaction low if they are not properly planned.

The book is packed with literally hundreds of ideas and photographs. It tells in detail how to choose and use every imaginable material for walls, and patio floors, from concrete, stone, brick and adobe to tile, mosaic and redwood rounds.

ARCHITECTURAL AND ENGINEERING LAW. By Bernard Tomson. Reinhold Publishing Corpn., 330 W. 42nd Street, New York. Price $7.00

This book cites 1300 cases that have come before the courts involving Architects and engineers in one way or another. It is designed to fill a long-felt need among members of the architectural, engineering, and law professions.

Contractors, sub-contractors, builders, suppliers and their individual and collective clients, as well as architectural and engineering, and law schools, will find this book extremely useful.

The author, Bernard Tomson, has the ideal background to write such a book, having written for a number of years the feature "It's The Law" which appears in a national architectural publication, and practiced law in New York.

The book is divided into seven major parts, each dealing with a specific phase of the construction industry.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

346. VERMICULITE PLASTERING AND ACOUSTICAL LASTIC

New standard specifications for vermiculite plastering and acoutical plastic have been issued by Vermiculite Institute. The plastering specifications are in general agreement with American Standard Specifications for Gypsum Plastering, A.S.A. No. A42.1-1950. The booklet covers the application of vermiculite plaster base coats to all types of lath and masonry bases, solid partitions, and standard finish coats, including the new vermiculite trowel finish. Of general interest to architects and contractors is the fact that vermiculite acoustical plaster can be applied directly to monolithic concrete ceilings. In other words, no base coat is needed. Detailed suggestions for best results in plastering over masonry, solid partitions, and metal lath ceilings are given in the booklet. AIA 5-A1, 12 pages, illus., 1/30/51.

347. HOME FINANCING CIRCULAR

For the average American family whose biggest lifetime investment is building or buying a home, the Small Homes Council at the University of Illinois offers practical advice in a revised and enlarged edition of its circular on "Financing the Home." "Home Financing is a mutual program as far as the homeowner and the lender are concerned," the circular emphasizes. "To avoid loss to either or both, the home must be financed on a sound basis." The new publication covers steps in financing a home, beginning with how much a family can afford to spend. Twenty to 30 per cent of the family budget goes into housing—either in rent or ownership, it points out. Interest, taxes, insurance, and upkeep all are a part of home costs and must be anticipated. Illustrating this, a table shows the annual outlay for each $1,000 borrowed. This outlay varies according to interest rates and the number of years the loan runs. A1.3, 12 pages, illus., 1/52.

348. NEW PLYWOOD CATALOG

The new "Weldwood Catalog" has recently been published by United States Plywood Corporation, world's largest plywood company. The new booklet contains descriptions, photographs, specifications, and list prices of softwood and hardwood plywood, doors, plastics and the many specialties which comprise the Weldwood family of products. Form 1052, 43 pages illus., 1/52.

349. PHILIPPINE MAHOGANY FOR CHURCHES

A brochure has just been released showing the treatment of CHURCH interiors and altars with the use of Philippine Mahogany. Beautiful illustrations of paneling and pews are included as well as reproductions of recent altar installations using Philippine Mahogany. 14 pages illus., 1/51.

350. WHITEPRINTING BULLETIN

An informative new bulletin on low-cost, complete SPEE-DEE whiteprinting outfits used in plants, offices, and schools has just been issued by Peck & Harvey, manufacturers of whiteprint, blueprint, and photocopy equipment. This brochure illustrates and describes portable whiteprinting outfits that produce black, blue, maroon or sepia line positive prints by the moist-diazo (semi-dry) or the ammonia-fume (dry) method. This bulletin also gives helpful facts about the whiteprinting process and important suggestions about printing and developing for speed, economy, and utility. 127, 4 pages illus., 12/51.

351. ENGINEERING SERVICE

The engineering services offered by York Engineering & Construction Company are described in a folder just published. These services include the design of buildings, foundations, and equipment for industrial plants, as well as project coordination and control. 4 pages illus., 12/10/51.

352. INDUSTRIAL PIVOTED STEEL WINDOWS

Announcement has just been made by Nat L. Lehman, Vice-President of The Steelcraft Manufacturing Company, that Steelcraft's "Industrial Pivoted Steel Windows" catalog has just been completed, and is ready for distribution. It describes the features, types, sizes and specifications of the New Steelcraft Pivoted Steel Window. AIA 16E. 4 pages illus., 12/51.

353. CONTROLS FOR HEATING AND AIR CONDITIONING

A very complete and informative catalog of thermostats, motor-operated valves and accessories for heating, ventilating, and air conditioning applications is now available from the Barber-Colman Company. A handy reference for all architects, engineers, and contractors when selecting control equipment to meet most rigid specifications. A.I.A. 30 F, 46 pages illus., 10/51.

354. GAS SCRUBBER BULLETIN

Complete with a capacity curve sheet, cross section diagram and other technical data including typical installation pictures, Peabody's new bulletin is now available for distribution. 203-B, six pages illus., 11/51.

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I would like to have a copy of each of the New Catalogues I have circled.

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Please send to the address on my letterhead, or as I have indicated, and to my attention. (Please print your name — no literature will be sent on this coupon after March, 1952.—A. & E.)

NEW INDUSTRIAL PLANT FOR PITTSBURG AREA

The Monsanto Chemical Company has announced construction will soon begin on a 250-ton sulphuric acid plant on a 86-acre site near Avon, California, which is in the Pittsburg industrial area.

The plant will utilize waste sludge and hydrogen sulphide piped from the adjacent Tide Water Associated Oil Company refinery and according to Irving C. Smith, general manager of Monsanto's western division, the new plant will be in operation by the end of 1952.

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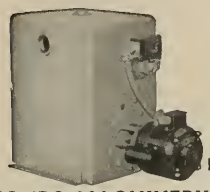

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SCHOOL PLANNING

(From page 9)

"While the ideal of a self-contained classroom should be recognized in the elementary program, special space should be provided for pupil laboratory experiences—experiences that are impractical to carry out in the classroom," the report advises.

Aquariums, science exhibits and art displays in these rooms will encourage children's interest in these fields, and the rooms will serve as centers for equipment too expensive or impractical to be supplied for each classroom.

A number of smaller offices and conference rooms are needed for efficient administration, health and guidance programs, the report declares. Offices for these departments should be designed as one unit and planned to facilitate future changes.

"Since these suites need a great many relatively small rooms, and since a basic principle of school construction is to avoid inhibiting the program by freezing it with bricks and motar, it would be wise to make none of the interior walls of these suites permanent or supporting walls," the report states.

Decoration of these rooms, particularly in the guidance department, should be informal, well lighted and show a minimum of clutter. Magazine and book racks, movable exhibits and comfortable furniture should be installed in a joint reception room for these offices.

Both school and community needs must be kept in mind, the study urges, in planning auditoriums and gymnasiums. Adequate seating capacity, motion picture and amplifying equipment, and adjoining storage and dressing room are necessary in the future auditorium if it is to be used for both school and community programs.

Gymnasiums, too, should be designed for maximum use through space-saving devices, such as recessible bleachers and well-planned court markings. Folding doors for cutting the gym in two, for separate, simultaneous use are now being used in modern schools, the committee reports.

Libraries in the modern elementary school will become a center for audio-visual aids as well as for reading and research. Part of the audio-visual section may include a speech room equipped with full-length mirrors and recording facilities for speech-correction work.

The planning of custodial facilities, lunch rooms, recreation areas and rest rooms for teachers should receive attention as important areas in the overall effectiveness of the school's program, the report concludes.

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Published Daily
The ARCHITECT and ENGINEER, Inc.
68 Post Street, San Francisco - DO 8311

AUSTRALIAN APARTMENT HOUSE

(From page 14)

Each floor has a laundry with washing machines, drying rooms, and electric rotary ironing machines. From oil-fuelled furnaces hot water heating is reticulated throughout the building by means of heating coils embedded in concrete floors and ceilings.

The suites are roomy and designed in some instances to combine office, studio, or professional rooms with living accommodation. About half have been leased to doctors. Three large suites on the upper floors are topped by penthouses and have their own private roof gardens for sun-bathing.

A standard suite in the building has an area of 1,325 square feet, two bedrooms, living room with an attached dinette, an all-electric kitchen, and bathroom with toilet and shower recess. A low dressing table in the bathrooms is a novel angle in some of the apartments.

The entire south walls of the three main rooms of each apartment are of plate glass, with venetian blinds and velvet curtains in a variety of shades. From all of these rooms there is a magnificent view of Melbourne's Albert Park, with its yachting lake, and of the shipping lanes of Port Phillip Bay. The lounge opens on to a small private balconette.

Color schemes make use of contrasting pastel

(See page 43)

ARCHITECT AND ENGINEER

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor & Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.

Glazed Structural Units—
Clear Glazed—
2 x 6 x 12 Furring ..... $1.60 per sq. ft.
4 x 6 x 12 Partition ..... 1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition ..... 2.25 per sq. ft.
For colored glaze add ..... .30 per sq. ft.

Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Cartage—Approx. $10.00 per M.
Paving—$75.00.

Building Tile—
8x5½x12-inches, per M $139.50
6x5½x12-inches, per M 105.00
4x5½x12-inches, per M 84.00

Hollow Tile—
12x12x2-inches, per M $146.75
12x12x3-inches, per M 156.85
12x12x4-inches, per M 177.10
12x12x6-inches, per M 235.30
F.O.B. Plant

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll $5.30
2 ply per 1000 ft. roll 7.80
3 ply per 1000 ft roll 9.70
Brownskin, Standard 500 ft. roll 6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll 7.00

Sheathing Papers—
Asphalt sheathing, 15-lb. roll $2.00
30-lb. roll 2.79
Dampcourse, 216-ft. roll 2.95
Blue Plasterboard, 60-lb. roll 5.10

Felt Papers—
Deadening felt, ¾-lb., 50-ft. roll $3.23
Deadening felt, 1-lb. 3.79
Asphalt roofing, 15-lbs 2.00
Asphalt roofing, 30-lbs 2.79

Roofing Papers—
Asphalt Rfg., 15 lb. $2.09
Standard Grade, 108-ft. roll, Light 1.87
Smooth Surface, Medium 2.18
Heavy 2.56
M. S. Extra Heavy 2.96

BUILDING HARDWARE—

Sash cord com. No. 7 ..... $2.65 per 100 ft.
Sash cord com. No. 8 ..... 3.80 per 100 ft.
Sash cord spot No. 7 ..... 3.65 per 100 ft.
Sash cord spot No. 8 ..... 3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.
I-Ton lots, per 100 lbs. $3.75
Less than I-ton lots, per 100 lbs. $4.75
Nails, per keg, base $11.80
8-in. spikes 11.80
Rim Knob lock sets 1.80
Butts, dull brass plated on steel, 3½x3½ ..... .76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—
Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
Per Sack, small quantity (paper) $1.05
Carload lots, in bulk per bbl. 2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Medusa White — 1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards* $12.00
10 to 100* yards 11.00
100 to 500 yards 10.50
Over 500 yards 10.30
* Delivered to site.

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches, each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	....	.60

Haydite Aggregates—
¾-inch to ⅜-inch, per cu. yd. $7.25
⅜-inch to ⅛-inch, per cu. yd. 7.25
No. 6 to 0-inch, per cu. yd. 7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock, will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	33/32x2¼	½x2	¾x2	⅝x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
33/32 x 2¼	390.00	381.00
33/32 x 2¼	375.00	355.00
33/32 x 3¼	395.00	375.00
33/32 x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

33/32 x 2¼ First Grade $390.00
33/32 x 2¼ 2nd Grade 365.00
33/32 x 2¼ 2nd & Btr. Grade 375.00
33/32 x 2¼ 3rd Grade 240.00
33/32 x 3¼ 3rd & Btr. Jtd. EM 380.00
33/32 x 3½ 2nd & Btr. Jtd. EM 390.00
33/32 x 2¼ First Grade 400.00
33/32 x 2¼ 2nd Grade 360.00
33/32 x 2¼ 3rd Grade 320.00
Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Glass	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Glass	.64 per □ ft.
⅛ in. Obscure Glass	.40 per □ ft.
⅛ in. Obscure Glass	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glazing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness (3⅜") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Delvd.
V.G.-D.F. B & Btr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry. 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-SIS $170.00
½-inch, 4.0x8.0-SIS 250.00
¾-inch, per M sq. ft. 315.00
Plyscord ..... 1½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square
Pressure Treated Lumber—
Walmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patent screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.
For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work	per yard 85c
Three-coat work	per yard $1.10
Cold water painting	per yard 25c
Whitewashing	per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Wholesale Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (Soft - Paste)

Net Weight Packages	List Price per 100 lbs.	Pr. per pkgs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead —Red Lead in Oil

Price to Painters—Products	Price Per 100 lbs.	Pounds 50 lbs.	25 lbs.
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch	$2.50 lineal foot
8-inch	3.00 lineal foot
10-inch	4.00 lineal foot
12-inch	5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags. $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Sellings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLILme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply--$11.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per square.. 18.25
4/2 No. 1-24" Royal Cedar Shinglas ..... 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. S.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M $240.00
Standard, 8-in. per M 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12', $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless, (unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft.. 1.85

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.

¼-in. Rd. (Less than 1 ton)	$8.40
⅜-in. Rd. (Less than 1 ton)	7.30
½-in. Rd. (Less than 1 ton)	7.00
⅝-in. Rd. (Less than 1 ton)	6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton)	6.65
1-in & up (Less than 1 ton)	6.60

1 ton to 5 tons, deduct 25c.

STORE FRONTS (None available).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅜"..... $ .18 - $ .35 sq. yd.
Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 per so. ft
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (c)
Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(23)
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th Sts., UN -17400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259

AIR CONDITIONING (b)
Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58, 4851 S. Alamada St.
San Francisco, 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (a)
Ceramic Veneer
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU (Dept. AE-450)
Room 601, Franklin Building, Oakland 12, California
P. O. Box 186, East Pasadena Station, Pasedena 8, California
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834

BANKS-FINANCING (1b)
CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery St's., EX 2-7700

BATHROOM FIXTURES (1c)
Metal
THE CAMBRIDGE TILE MFG. CO. *(23)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(23)

BRASS PRODUCTS (1a)
GREENBERG'S, M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BRICKWORK (1)
Face Brick
GLADDING, McBEAN & CO.*(a)
San Francisco: Harrison at 9th Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Offices at Portland, Seattle, Spokane
KRAFTILE
Niles, California, Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241
REMILLARD-DANDINI CO.
San Francisco: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (1b)
GREENBERG'S M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BUILDING PAPER & FELTS (2)
ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Boulevard
SISALKRAFT COMPANY
San Francisco: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (3)
THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (c)
PACIFIC PORTLAND CEMENT
San Francisco: 417 Montgomery St., GA 1-4100

CONCRETE AGGREGATES (4)
Aggregates
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th & A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., Ph. 8-8643
Fresno: 2150 G. St., 280 Thorne Ave., Ph. 3-5166
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond, Cal.: 26th & B Sts.—Yd. 2, RI 4307

DOORS (4a)
Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St. AD 1-1108
Distributors:
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
T. M. COBB CO.
Los Angeles: & San Pedro
SOUTHWEST SASH & DOOR
Phoenix, Arizona
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN CO.
(See Hollywood Door listing above)

FIRE ESCAPES (5)
MICHEL & PFEFFER IRON WORKS, INC.
South Linden and Tanforan Aves.
South San Francisco: JU 4-8362
SOULE STEEL
San Francisco: 1750 Army St., VA 4-4141
Los Angeles, Calif.—LA 0911
Portland, Ore.—BE 5155
Seattle, Wash.—SE 3010

FIREPLACES (5a)
Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St. PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (6)
Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(a)
KRAFTILE *(23)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(23)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
470 Alabama St., San Francisco, MA. 1-7766
Los Angeles, 923 E. 3rd, TRinity 8282
Seattle, 3440 E. Marginal Way
Diversified (Magnesite, asphalt tile, composition, etc.)
LeROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LeROY OLSON CO.

GLASS (7)
W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Oregon

HEATING (8)
HENDERSON FURNACE & MFG. CO.
Sebastopol, Calif.
S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 No. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
Electric Heaters
ELECTROMODE CORP.
Rochester, N. Y.
San Francisco: 1355 Market St., KL 2-2311
Northern California Distributors
GENERAL ELECTRIC SUPPLY CORP.
San Francisco: 1201 Bryant St., UN 3-4000
Emeryville: 5400 Hollis St., OL 3-4433
Sacramento: 1131 S St., GI 3-9001
Fresno: 1234 O St., Fresno 4-4746
INCANDESCENT SUPPLY COMPANY
Redding: 2146 Pine St., Redding 200
THOMAS B. HUNTER (Designer)
San Francisco: 41 Sutter St., GA 1-1164
UTILITY APPLIANCE CORP. *(b)

INSULATION AND WALLBOARD (9)
LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
SISALKRAFT COMPANY *(2)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Sacramento: 1224 I Street, 2-8993
Stockton: 1120 E. Weber Ave., 4-1863
Fresno: 1837 Merced Street, 3-3277
San Jose: 201 So. Market St., BA 4359-J

IRON—Ornamental (10)
MICHEL & PFEFFER IRON WORKS, INC.* (5)

LANDSCAPE (11a)
Landscape Contractors
HENRY C. SOTO CORPN.
Los Angeles, 13000 S. Avalon Blvd. ME 4-6617

LIGHTING FIXTURES (11)
SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (12)
HOGAN LUMBER COMPANY *(6)
LUMBER MANUFACTURING CO. *(9)
Shingles

MARBLE (13)
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (14)
FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100
SOULE STEEL *(5)

MILLWORK (15)
LUMBER MANUFACTURING COMPANY *(9)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Franciscso: 16 Beale St., GA 1-7755
Santa Clare: 2610 The Alameda, SC 607
Los Angeles: 6820 McKinley Ave., TH 4196

PAINTING (16)
Paint
W. P. FULLER COMPANY *(7)

PLASTER (17)
Interiors—Metal Lath & Trim
FORDERER CORNICE WORKS *(14)
Exteriors
PACIFIC PORTLAND CEMENT COMPANY*(4)

PLASTIC CEMENT (f)
PACIFIC PORTLAND CEMENT CO.
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (18)
THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio
THE SCOTT COMPANY *(8)
HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341
CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178
SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322
SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

SEWER PIPE (19)
GLADDING, McBEAN & CO. *(1)
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

SHEET METAL (20)
Windows
DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890
MICHEL & PFEFFER IRON WORKS, INC. *(5)
SOULE STEEL COMPANY *(5)
Fire Doors
DETROIT STEEL PRODUCTS COMPANY
Skylights
DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (21)
COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle: 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767
JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building
KRAFTILE COMPANY *(1)
SAN JOSE STEEL COMPANY
San Jose: 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (22)
REPUBLIC STEEL CORP. *(21)
HERRICK IORN WORKS *(21)
SAN JOSE STEEL CO. *(21)
COLUMBIA STEEL CO. *(21)

TILE (23)
THE CAMBRIDGE TILE MFG. CO. *(23)
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800
GLADDING, McBEAN & CO. *(a)
KRAFTILE
Niles, California: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

TIMBER—REINFORCING (b)
Trusses
WEYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.
Treated Timber
J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (24)
THE CAMBRIDGE TILE MFG. CO. *(23)
GLADDING, McBEAN & CO. *(1)
KRAFTILE COMPANY *(1)

WINDOWS STEEL (25)
DETROIT STEEL PRODUCTS CO. *(20)
MICHEL & PFEFFER IRON WORKS, INC.*(5)
SOULE STEEL COMPANY *(5)

GENERAL CONTRACTORS (26)
BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161
DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718
CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440
MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516
PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639
STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064
SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver
P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS) (27)
ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS	3.25	3.25	3.15	2.85	3.25	3.00	3.00	3.25	1.75	1.75	1.75	1.75	1.75
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	2.20	2.20	2.20	2.20	2.20
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.28	2.28	2.28	2.28	2.28
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.50	2.50	2.50	2.50	2.50
ELECTRICIANS	2.75	2.60	2.60	2.75	2.50	2.50	2.625	2.60	2.25	2.25	2.25	2.25	2.25
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	1.9875	1.9875	1.9875	1.9875	1.9875
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.00	2.00	2.00	2.00	1.96
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.255	2.255	2.255	2.255	2.255
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.28	2.28	2.28	2.28	2.28
REINF. RODMEN	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.30	2.30	2.2375	2.30	2.30
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	1.65	1.65	1.65	1.65	1.65
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	2.50	2.50	2.50	2.50	2.50
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.625	2.625	2.625	2.625	2.625
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.40	2.40	2.20	2.40	2.40
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.33	2.33	2.33	2.33	2.33
PLASTERERS	3.00	3.15*	3.15	2.75	3.00	3.00	3.125	3.00*	2.50	2.75	2.50	2.50	2.50
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.625	2.625	2.625	2.625	2.675	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4375	2.875	2.875	2.50	2.50	2.20	2.50	2.25

* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:
CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

AUSTRALIAN APARTMENT HOUSE

(From page 38)

shades for walls and ceilings, varied from room to room.

One of the larger flats, furnished by the tenant, illustrates how the best features of modern decoration have been used. It includes a very large studio with two fluted columns, south and west walls entirely of glass and shaded with venetian blinds and alternating burgundy, green and blue curtains, and outside the windows, box gardens and a roof lawn.

A parquet floor is covered with loose mats. An alcove cocktail bar has an electric stove as well as a built-in refrigerator. Furniture consists of built-in settees and wrought iron chairs and tables with glass table tops. Concealed lighting comes from the top of the fluted columns and from fluorescent fixtures in the walls.

Otherwise this type of flat is similar to others in the building, the second bedroom being divided from the living room by folding doors to enable it to be used as additional living room space. The full south wall space of both rooms, as well as of the first bedroom, is of glass. The first bedroom has walls of pale pink and ceiling of light blue, with rust colored velvet curtains; the second bedroom cream walls, pale blue ceiling, gold quilted stain side curtains and white center curtains; and the lounge, pale blue walls and white ceiling with green, blue and silver velvet curtains.

For many Australians "Stanhill" is a tantalizing vision of the kind of living accommodation they may expect to become more common in the future —when there is less breathless urgency in the housing drive.

CALIFORNIA INTERNATIONAL HOME SHOW AND BUILDERS MARKET WEEK AT OAKLAND

Latest ideas in better living for Western families will feature the fourth annual California International Home Show and Builders Market Week in the Oakland (California) Exposition Building from March 8 to 16.

The Show is sponsored by the Associated Home Builders of the Eastbay, and will feature alternate materials for the building industry, and a Moduflex home designed by Roger Lee, A.I.A., Berkeley architect, and built by Fred F. Chopin, president AHB, an outstanding example of teamwork between architect and builder, will be exhibited.

Builders from all parts of the West are expected to attend and it is expected public attendance will exceed last year's all time high of 65,000 persons.

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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

BONNEHEIM ELEMENTARY SCHOOL, Sacramento, Sacramento County. Sacramento Board of Education, owner. 12 classrooms, kindergarten, administration & toilet rooms, $313,646. ARCHITECT: Herbert E. Goodpastor, Sacramento. Frame & stucco construction & brick veneer, steel sash. GENERAL CONTRACTOR: Lawrence Construction Co., Sacramento.

FACTORY BUILDING AND OUTDOOR CRANEWAY, Los Angeles, Los Angeles County. Hydraulic Press & Engineering Co., owner. Corrugated iron exterior factory building, $192,000. STRUCTURAL ENGINEER: W. M. Bostock, Southgate. 120 x 500 feet, corrugated iron roofing, steel sash, open ends, concrete slab floor, concrete footings, one 10 ton and two 2 ton cranes. GENERAL CONTRACTOR: Jack Ganz, Los Angeles.

PAROCHIAL SCHOOL, North Hollywood, Los Angeles County. Roman Catholic Archbishop of Los Angeles, owner. 8 classrooms, and auditorium classroom at St. Patricks Parish, $169,961. ARCHITECT: Montgomery & Mullay, Los Angeles. Reinforced concrete construction, wood laminated girders in auditorium, cement slab floors, asphalt tile, steel sash, console heaters, tile toilet floors, marble partitions. GENERAL CONTRACTOR: Ben K. Tanner & Son, Beverly Hills.

SANITARIUM ADDITION, Millbrae, San Mateo County. Millbrae Sanitarium, owner. $143,489. ARCHITECT: Albert W. Kahl, San Mateo. 2 story, 45 x 85, reinforced concrete construction, elevator. GENERAL CONTRACTOR: Morris Daley, Burlingame.

WASHINGTON SCHOOL ADDITIONS, Hawthorne, Los Angeles County. Hawthorne School District, owner. 8 classrooms addition, $121,683. ARCHITECT: Kistner, Curtis & Wright, Los Angeles. 1 story frame & stucco construction, 7700 sq. ft., composition roofing, concrete floor, asphalt tile floor. GENERAL CONTRACTOR: Stein Construction Co., Los Angeles.

MAYBELLE ELEMENTARY SCHOOL, Palo Alto, Santa Clara County. Palo Alto Unified School District, owner. 12 classrooms, 2 kindergartens & toilet rooms, $280,000. ARCHITECT: Birge M. Clark & Walter Stromquist, Palo Alto. Frame & stucco construction. CMP granted. GENERAL CONTRACTOR: Earl W. Emley, Saratoga.

MAR VISTA HIGH SCHOOL, National City, San Diego County. Sweetwater Union High School District, owner. Administrative building, library, science room, music building and home economics unit, $521,869. ARCHITECTS: Kistner, Curtis & Wright, San Diego. Frame & stucco construction, asbestos shingle, composition roofing, cement slab, asphalt tile floors, hot water heating system, metal sash, masonry, ceramic tile toilets. GENERAL CONTRACTOR: O. L. Carpenter, San Diego.

CHAS. A. WHITTON SCHOOL, Oakland, Alameda County. Oakland Board of Education, owner. Special school for crippled children, $454,942. ARCHITECT: Beals, Bidwell & Mackey, Oakland. 1 story, frame & stucco construction. GENERAL CONTRACTOR: R. C. Lewis Construction Co., Oakland.

VINELAND ELEMENTARY SCHOOL, Sacramento, Sacramento County. Rio Linda Elementary School District, owner. 9 classrooms, administration, kindergarten, multipurpose, kitchen, toilet rooms, $368,042. ARCHITECT: George C. Sellon, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: Edwin J. Mackey, Sacramento.

NEW ELEMENTARY SCHOOL, Camino, Eldorado County. El Camino Union Elementary School District, owner. 7 classrooms, administration, kindergarten, multi-purpose, kitchen and toilet rooms, $288,268. ARCHITECT: Raymond Franceshi & H. Mullen, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: James P. Morton, Placerville.

TODD HUNTER ELEMENTARY SCHOOL, Broderick, Yolo County. Washington Elementary School District, owner. 7 classrooms, administration, kitchen, multi-purpose & toilet rooms, $222,060. ARCHITECT: Barrovetto & Thomas. Frame & stucco construction. CMP granted. GENERAL CONTRACTOR: Pacific Co., Berkeley.

COMMUNITY CLUB HOUSE, San Francisco. Booker T. Washington Community Service Center, owner. $107,000. ARCHITECT: Lloyd Gartner, San Francisco. 2-story, frame & stucco construction, concrete foundation & retaining wall. Combination auditorium, gym, dining room, kitchen, meeting rooms & officer snack bar. GENERAL CONTRACTOR: Beingo Construction Co., San Leandro.

FERGIE'S DRIVE-IN RESTAURANT, San Leandro, Alameda County. Thomas Piperia, owner. $47,000. ARCHITECT: Anderson & Simonds, Oakland. Frame & stucco construction. GENERAL CONTRACTOR: Geo. B. Green, San Lorenzo.

NEW BALBOA GRAMMAR SCHOOL, Richmond, Contra Costa County. Richmond Board of Education, owner. 7 classrooms, administration, kindergarten & toilet rooms. $154,182. ARCHITECT: Donald L. Hardison, Richmond. Frame & stucco construction. GENERAL CONTRACTOR: R. H. Myers, Richmond.

A. D. EWING ELEMENTARY SCHOOL, Fresno, Fresno County. Fresno Board of Education, owner. 12 classrooms, 2 kindergartens, administration, kitchen, multi-purpose, toilet rooms. $362,616. ARCHITECT: Walter Wagner, Fresno. Frame & stucco, rigid asbestos shingle roof, concrete & asphalt tile floors, radiant heating. GENERAL CONTRACTOR: Harris Construction Co., Fresno.

MONTGOMERY SCHOOL, Chula Vista, San Diego County. Chula Vista City School District, owner. $209,737. ARCHITECTS: Paderewiski, Mitchell & Dean, San Diego. GENERAL CONTRACTOR: H. W. Grizzle, San Diego.

FIVE APARTMENT BUILDINGS, Las Vegas, Nevada. Nevada Apartments, Inc., owner. Five 2 story, 40 room, 20 family, $500,000. STRUCTURAL ENGINEER: R. W. Woodbury, West Los Angeles. Frame & stucco construction, lightweight concrete and composition roofing, 9996 sq. ft. per building. GENERAL CONTRACTOR: Trousdale Construction Co., West Los Angeles.

FACTORY BUILDING, Dominguez, Calif. Boden Chemical Co., owner. 1 story, 7 rooms, $60,000. PLANS BY: F. Thomas Collins, San Gabriel. Concrete blocks, 16,000 sq. ft., composition roofing, steel sash, concrete slab floor. GENERAL CONTRACTOR: Mille-Severson, Inc., Long Beach.

APARTMENT BUILDING, Los Angeles, Los Angeles County. Irving Wolkoff, owner. 2 story, 16 unit, $80,000. STRUCTURAL ENGINEER: John E. Mackel, Los Angeles. Frame & stucco construction, 55 x 132 ft., composition roofing, oak and linoleum floors, wood and metal sash, composition stairs, tiled baths and drainboards. GENERAL CONTRACTOR: Dave Russin, Los Angeles.

SCHOOL BUILDING, Coronado, San Diego County. Coronado Unified School District, owner. 6 classrooms, 3 kindergartens, administrative offices, $196,562. ARCHITECT: Sam Hamill, San Diego. Frame & stucco construction, composition roofing, slab and asphalt tile floors, cork floors, forced air heating. GENERAL CONTRACTOR: C. F. Von Gunden, San Diego.

EXTENSION AND REMODELING OF TERMINAL ANNEX EXTENSION, Los Angeles, Los Angeles County. Public Buildings Service, Washington, D. C., owner. 3 story and basement extension, $611,500. ARCHITECT: Jesse E. Stanton, Los Angeles. Concrete walls and frame, 82 x 114 ft., steel sash and doors, metal stud partitions, mastic composition, linoleum and ceramic tile flooring. GENERAL CONTRACTOR: Zoss Construction Co., Los Angeles.

MARE ISLAND ELEMENTARY SCHOOL, Mare Island, Solano County. U. S. Government, owner. 10 classrooms, all-purpose, kitchen & toilet rooms, $359,212. ARCHITECT: Masten & Hurd, San Francisco. 28,000 sq. ft. Frame & stucco construction. GENERAL CONTRACTOR: Paul E. McCullom, Richmond.

WAREHOUSE & OFFICE BUILDING, Oakland, Alameda County. Slakey Bros., owner. $145,000. ARCHITECT: Alben Froberg, Oakland. 1 story, 200 x 200, concrete slab construction, wood roof trusses. GENERAL CONTRACTOR: Christenson & Lyons, Oakland.

CHURCH ADDITION, Fresno, Fresno County. First Baptist Church, owner. $61,888. ARCHITECT: Stevens & Clark, Fresno. GENERAL CONTRACTOR: Larsen-Ratto Construction Co., Fresno.

ADDITION AND ALTERATIONS TO POMONA COMMUNITY HOSPITAL, Pomona, Calif. Pomona Community Hospital, owner. $71,250. ARCHITECT: J. Dewey Harnish, Ontario. Reinforced concrete addition, composition roofing, cement and asphalt, tile floors, steel studs and plaster partitions, acoustical work, ceramic tile, steel sash.

MEDICAL BUILDING, Palms, Los Angeles County. Sherwood, Sloan and Trimble, M.D.'s, owners. 1 story and partial second story, $132,246. PLANS BY: The Multiprise Co., Glendale. Frame & stucco construction. GENERAL CONTRACTOR: Merritt S. Dunlap, Glendale.

NAVY HOUSING PROJECT, Port Chicago, Contra Costa County. U. S. Navy, Bureau of Yards & Docks, owner. 126 units (Wherry Act), $826,872. ARCHITECT: Miller & Warnecke, San Francisco. Frame & stucco con-

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struction. SPONSOR: Richard L. Fairless & Assoc., Los Angeles.

PAROCHIAL SCHOOL & CONVENT, San Pablo, Contra Costa County. Roman Catholic Archbishop of San Francisco, owner. 9 classrooms, administration & toilet rooms, convent, $271,400. ARCHITECT: Vincent Buckley, San Francisco. Frame & stucco construction. GENERAL CONTRACTOR: (Parochial School) R. F. Johnson & Son, El Cerrito; (Convent) Pacific Coast Builders, San Francisco.

STRAWBERRY ELEMENTARY SCHOOL, Mill Valley, Marin County. Mill Valley Elementary School District, owner. 8 classrooms, administration, multi-purpose, kitchen, toilet rooms, $208,362. ARCHITECT: Alfred W. Johnson, San Francisco. Frame & stucco construction. GENERAL CONTRACTOR: Wm. Horstmeyer Co., San Francisco.

OFFICE BUILDING REMODEL, San Francisco. West Coast Life Insurance Co., owner. $80,500. ARCHITECT: E. Geoffrey Bangs, San Francisco. Interior remodel. GENERAL CONTRACTOR: Jacks & Irvine, San Fran-

COLLEGE BUILDINGS, Claremont, Calif. Claremont College, owner. Office building, carpenter shop, materials control building, eight quonsets and 3 storage buildings, $100,000. ARCHITECT: Witmer, Watson & Pidgeon, Los Angeles. Frame & stucco construction, corrugated metal, frame & corrugated iron, composition roofing, metal sash, concrete floor, asphalt tile floor covering. GENERAL CONTRACTORS: Stephen Owers, Pasadena.

ELEMENTARY SCHOOL, Edwards, Calif. House and Home Finance Agency, owner. $444,977. ARCHITECT: Ernest L. McCoy, Bakersfield. GENERAL CONTRACTOR: Fred S. Macomber, Los Angeles.

ADDITION TO HOSPITAL BUILDING, Glendale, Los Angeles County. Behren's Memorial Hospital, owner. 1 story and part 2 story, $55,000. ARCHITECT: George Postle and S. David Underwood, Glendale. STRUCTURAL ENGINEER: Ralph A. De Line, Los Angeles. Frame, stucco, brick & concrete, composition roofing, concrete and terrazzo floors, wood and glass partitions, fire doors, steel sash, re-inforcing steel. GENERAL CONTRACTOR: Ruben Yaeger, Glendale.

FACTORY BUILDING, East Los Angeles, Los Angeles County. General Air Conditioning Corp., owner. $44,000. STRUCTURAL ENGINEER: W. M. Bostock, South Gate. Steel frame and corrugated metal exterior, 73 x 180 ft. wood roof, composition roofing, steel sash, sliding doors, concrete floor. GENERAL CONTRACTOR: Empire Steel Buildings Co., Los Angeles.

PARCEL POST ANNEX BUILDING, Phoenix, Ariz. U. S. Post Office, owner. 1 story, 120 x 180 ft., 60 x 18 garage, two 18 ft. loading docks, $250,000. ARCHITECT: Herman A. Bell, Phoenix. Steel trusses, concrete columns, brick face, steel sash, security windows, cement floors. GENERAL CONTRACTOR: S. M. Horman Construction Co., Salt Lake.

NEW FREMONT JUNIOR HIGH SCHOOL, Monterey, Monterey County. Monterey Unified School District, owner. 10 classrooms, administration, science, home-economics, music, library, all purpose, boys & girls shower & locker buildings, $598,386. ARCHITECT: Chas. E. Butner, Salinas. Frame & stucco construction. GENERAL CONTRACTOR: Tombleson & Huck, Salinas.

HATHAWAY ELEMENTARY SCHOOL, San Lorenzo, Alameda County. San Lorenzo Elementary School District, owner. 13 classrooms, administration, 2 kindergartens, multi-purpose & toilet rooms, $431,881. ARCHITECT: Schmidts & Hardman, Berkeley. Frame & stucco construction. GENERAL CONTRACTOR: Indenco, Oakland.

NEW PLEASANT HILL INTERMEDIATE SCHOOL, Pleasant Hills, Contra Costa County. Mt. Diablo Unified School District, owner. 31 classrooms, administration, shops, art, homemaking, music, gym, multi-use, library & toilet rooms, $726,690. ARCHITECT: Reynolds & Chamberlain, Anderson & Simons, Confer & Willis & John Lyon Reid, Oakland. 1 story, 45,000 sq. ft., frame & stucco construction, concrete floors & radiant heating. GENERAL CONTRACTOR: Pacific Co., Berkeley.

SCIENCE BUILDING, Long Beach, Los Angeles County. Long Beach Board of Education, owner. 2 classrooms, 1 story, $191,717. ARCHITECT: Kenneth S. Wing, Long Beach. Frame & stucco construction, 70 x 200 feet, composition roofing, skylights, concrete slab, asphalt tile, lockers and toilet rooms, convector type heating. GENERAL CONTRACTOR: Empire Steel Buildings Co., Los Angeles.

HEADQUARTERS BUILDING AMERICAN RED CROSS, San Diego, San Diego County. American National Red Cross, owner. 2 story & basement, $146,860. ARCHITECT: William P. Lodge, San Diego. Reinforced concrete & wood frame construction, composition roofing, slab wood and asphalt tile floors, fire doors, glass doors, metal lath, reinforcing steel, steel sash, tile work. GENERAL CONTRACTOR: L. C. Anderson Co., San Diego.

MARKET BUILDING, Santa Monica, Los Angeles County. Safeway Stores, Inc., owner. 1 story, 200 x 100 ft., $150,000. STRUCTURAL ENGINEER: W. M. Bostock, South Gate. Frame & stucco construction, wood trusses, composition roofing, concrete floor slab, sprinkler system. GENERAL CONTRACTOR: Hahn-St. John, Hawthorne.

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IN THE NEWS

NEW WAREHOUSE IN LOS ANGELES

Said to be the largest plywood warehouse in the United States, a new structure has just been completed for the United States Plywood Corp. in Los Angeles, and Donald L. Braley, veteran West Coast plywood expert, has been named manager.

The new warehouse contains 60,000 ft. storage area, a 6,000 ft. office, showroom and sales room center, and a 30,000 ft. paved area for customer parking and truck maneuvering.

VETERANS HOSPITAL

The Veterans Administration, Washington, D. C., has announced plans for the construction of a 1,000 bed Nero-Psychiatric hospital at Fort Funston in San Francisco.

Of reinforced concrete and structural steel construction the building will contain 12 inch walls, underground passageway and reinforced roofs.

Estimated cost of the project has been set at $25,000,000.

WORK BEGINS ON ORANGE ADDITION

Work has started on a $150,000 wire mill as an addition to the Anaconda Wire & Cable Company's plant in Orange (California).

The one-story structure will be of precast concrete, with 160 x 220 feet of floor space.

APPOINTED NEW SALES AGENT

Harry M. Harris, Wichita, Kansas, has been named sales representative for the L. J. Mueller Furnace Co. of Milwaukee, and will represent parts of Missouri, Nebraska, Iowa, Kansas and Oklahoma.

U. S. MARINE PROJECT

Permanent construction has started on a $3,500,000 development project for the U.S. Marine Corps at Camp Joseph H. Pendleton, Oceanside, and when completed will cover approximately 55 acres and consist of 10 barracks buildings, a mess hall, and administration building, two storage buildings, a recreation building and a boiler house.

The project has been developed by Pereira & Luckman, Los Angeles firm of Architects and Engineers, and the construction is being done by the M. H. Golden Construction Co. of San Diego.

REALTY ASSOCIATION ANTI PUBLIC HOUSING

The Los Angeles public housing program was strongly attacked in a resolution adopted at a recent meeting of the Calif. Real Estate Association.

The resolution points out that the city's original plan to develop 10,000 dwelling units of public housing at a cost of $100,000,000 (with no cost to the taxpayer) would actually result in a cost of some $300,000,000 to the taxpayers of the city.

The resolution declared, "Federally subsidized public housing is a social experiment which has failed and instead of helping the needy, it has become a vehicle for special privilege and political patronage."

The entire program has been cancelled by the city council and will be submitted to the voters of Los Angeles at the June election.

NEW BLUEPRINT CABINET KEEPS PRINTS BETTER

The new DRAW-IN-DEX cabinet files blueprints safely and conveniently without wrinkles, creases or curled edges, and is designed for blueprints, photostats, charts and photo blow-ups, where a maximum of efficiency is desired. Each cabinet accommodates 1,000 prints; each print hangs smoothly; an index file locates prints instantly; each print is accessible and may be removed without disturbing others; suspension rods support drawings that are easily attached to manila hangers; aluminum hangers permit filing large number of drawings together.

Comes in 4 ft. high x 2 ft. 6 in. wide x 20 in. deep; 18-gauge steel top; 16-gauge reinforced steel sides; Card index and Lock. Colors Grey, Green, or Brown. Distributed by Berwin Trading Co., New York, N. Y.

NEW PLYWOOD MILL

The Long-Bell Lumber Co., are producing plywood from their new mill at Gardiner, Oregon, according to a recent announcement.

The new plant has a capacity of four and a half million square feet of 3/8 in basis per month.

PLANNING HEAD IS RENAMED

Dr. Walter L. Bingham of Laguna Beach has been re-elected chairman of the Orange County Planning Commission. H. Stanley Huntington of Villa Park has been named vice-chairman, and Harold St. Johns, secretary-treasurer.

MATERIAL DEALERS ELECT OFFICERS

The Building Material Dealers Association of Southern California recently elected B. E. Mauzey, Beverly Hills building material dealer, president of the organization for 1952, succeeding J. A. McKinnon.

Other officers named included J. A. McKinnon, vice-president; Harold Green, treasurer; and A. L. Clouse, Alhambra Building Material Co.; J. D. Eddy, Quality Materials Co.; W. D. Elting, Glendale Builders Supply; Sam Gordon, Atlas Building Materials Co.; Harold Green, E. Lockett & Son; Henry Kingsland, Victory Materials Co.; B. E. Mauzey, Beverly Building Materials Co.; J. A. McKinnon, General Builders Supply Co.; William Movius, John & Wade, Inc.; Ray Schirm, Del Mar Building Supplies; Gordon Waterworth, L. A. Material & Supply Co., directors.

LOW RENT HOUSING PROJECT FOR EUREKA

The Housing Authority of the City of Eureka, California, is working on a 100-unit Low Rent Housing Project to be built in Eureka at a cost of $750,000.

The project consists of 38 buildings, one and two story, frame, and stucco construction.

Frank T. Georgeson, Eureka, is the architect.

PERMANENT TROOP FACILITIES

The Corps of Engineers, U.S. Army, announced recently it would spend some $12,614,800 in the construction of 42 buildings for troop spaces and supporting facilities at Fort Ord, Monterey county, California.

DUNCAN A. BROWNLEE JOINS UNISTRUT

Duncan A. Brownlee, Louisville, Ky., has been appointed as sales and service representative in the West Coast region for Unistrut Products Co. of Chicago, according to a recent announcement by John P. Heslin, vice-president in charge of the Western Division of the Company.

Brownlee will work with architects and engineers and Unistrut distributors in the coordinating of projects.

NAVY HOUSING FOR VALLEJO

The U. S. Navy, Bureau of Yards and Docks, has announced the construction of 358 housing units in Vallejo under the Wherry Act. Houses will be 2-story multi-family buildings of frame and stucco construction.

Barnett, Haynes & Barnett of San Francisco, are the architects.

NEW NEWSPAPER BUILDING

The Press Democrat Publishing Company of Santa Rosa, publishers of the daily Press-Democrat, are constructing a 1-story, 50x100 ft. newspaper building.

H. M. O'Neal of Oakland is the structural engineer.

AWARDED ALASKA ARMY CONTRACT

Col. L. E. Seeman, Alaska District Engineer, Corps of Engineers, U. S. Army, reports that the Munter Construction Company of Seattle has been awarded a contract for the clearing of transmitter and receiver sites at the Elmendorf and Ft. Richardson air fields in Alaska.

The contract bid was $199,139, and the government Fair Cost Estimate was $233,334.

REDWOOD REGION CONSERVATION COUNCIL ELECTS WOHLENBERG

E. T. F. Wohlenberg has been re-elected president of the Redwood Region Conservation Council for 1952 at the Council's annual meeting recently held in San Francisco.

Other officers named included Sherman

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A. Bishop, executive vice-president; Ben S. Allen, secretary; and Jack Fairhurst, treasurer. Named to the Board of Directors were R. J. Blitch, The Pacific Lumber Co.; R. W. Matthews, Brizard-Matthews Machinery Co., Eureka; A. O. Lefors, Hammond Lumber Co.; and Russell Ellis, Willits Redwood Products Company.

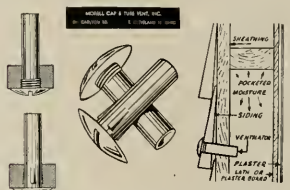
RECORD BUILDING PERMITS ISSUED

In the last 10 years, Los Angeles has issued more than $2,000,000,000 worth of building permits, according to G. E. Morris, superintendent of building and general manager of the Los Angeles Department of Building and Safety.

The report points out that the ten year period also covers the war years when much construction, particularly housing, was being geared to the war emergency.

NEW WALL VENTS PRESERVE PAINT

A new type of wall vent tube efficient in preventing the lifting, peeling and blistering of paint, and one that can be locked in place has been announced by The Morell Cap & Tube Vent Co., Inc., of Cleveland, Ohio.



Known as the MORELL TUBE VENT, it has a domed cap that sheds water; fits flush against the siding; may be painted with house; and an almost invisible 1/16 in. slot in the home provides maximum efficiency in relieving pressure, circulating air, releases pocketed moisture and reducing the condensation in inner walls of tightly constructed houses.

Made of strong, lightweight non-rusting alloy, it is available in two models—serrated and threaded; is 2 in long. Obtainable through jobbers.

PLANT ENGINEER APPOINTED TO REAL ESTATE DIVISION

K. M. Paulson, for the past seven years Plant Engineer at Bethlehem Pacific's San Francisco yard, has been appointed manager of real estate according to S. L. Crary, company secretary treasurer.

Paulson is a graduate of the University of Oregon and has been with the San Francisco Bethlehem plant since 1936.

ELDON SECHLER PROMOTED TO ASSISTANT MANAGER

Eldon Sechler has been promoted to assistant manager of the Los Angeles district for Detroit Steel Products and will serve directly under T. R. Wareham, district manager.

Wareham, in addition to his Los Angeles district duties, will serve in the newly created position of Regional Sales Manager for the Pacific Coast Division of the company.

LOS ANGELES COUNTY built 9% of the new homes built in America during 1950.

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PARKSIDE BRANCH—San Francisco Public Library

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MARCH 1952

Captain Raymond Harvey Medal of Honor

THE 17TH INFANTRY REGIMENT was attacking Hill 1232 near Taemi-Doug, Korea. Able and Baker Companies became split by a Red-held ridge. Charlie Company, Captain Harvey commanding, was moving up to fill the gap when the dug-in Red guns pinned it down. Calling for covering fire, Captain Harvey advanced

alone through a hail of enemy bullets. One by one, he personally wiped out four emplacements of machine guns and automatic weapons. Then he caught a bullet through the lung. But he stayed on, refusing evacuation, until sure the objective had been won.

"In Korea," says Captain Harvey, "we stopped aggression by *united* strength. *You* were helping—every time you bought a Defense Bond. Because your Defense Bonds were doing more than just helping keep you, and your family, and your country financially stable. They were backing *us* up in the field with *American production power*, the surest support any fighting man can have!

"I hope you'll go on buying Bonds—many, many of them. For your Bonds—and our bayonets—are making America strong. And in today's cold-warring world, *peace is only for the strong.*"

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Remember that when you're buying bonds for national defense, you're also building a personal reserve of cash savings. Remember, too, that if you don't save *regularly*, you generally don't save at all. Money you take home usually is money spent. So sign up today in the Payroll Savings Plan where you work, or the Bond-A-Month Plan where you bank. For your country's security, and your own, buy U.S. Defense Bonds now!

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COVER PICTURE

PARKSIDE
BRANCH

Public Library
San Francisco

This new public library building designed by the architectural firm of A. Appleton and Harold N. Wolford, looks like a luxurious, modern residence from a distance. It is located at 22nd and Taraval. (See Page 23 for additional details.)

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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. EDITORIAL NOTES .

PUBLIC ? WELFARE

The Federal Security Agency has just released some startling figures on the costs of financing some three-hundred public welfare programs for the fiscal 1950 year, the last one for which figures are available.

One-third of all the money spent by federal, state and local governments went to maintain Public Welfare programs. It represents some $23-billion tax dollars or 34.2 of all government spending. Put in another way; this represents a cost of $575 for every taxpaying American family per year.

One person out of every thirteen receives a monthly income payment through governmental sources, other than as salary for federal employment, and if farm and other benefit programs were included, one in nine persons would be on the receiving end.

Social legislation is big, complicated, and costly. The problem should be primarily a local consideration—only as a last resort and in a very limited number of cases can federal action be justified.

It is true that Welfare Programs are necessary and desirable. It is not, however, necessary nor desirable for federal bureaus to sieze upon various human needs as an excuse to extend federal control of and intervention into the lives of individual citizens.

You may think it is not your problem. You may think you are able to provide for yourself and your family. But the point is that the federal bureaus want to take over everybody's security, including yours, and they want you to help pay the whole bill. If you allow this you aren't going to have enough left to provide security for yourself and your own family.

This is one of the things to think about as you approach this year's all important elections—local, state, national.

* * *

Architect Registration in California began in 1901 when the State Legislature enacted the first laws providing for registration of architects.

* * *

EUROPEAN HOUSING

Housing conditions in Europe today prove that the only way to provide housing at a price the average person can afford is through private enterprise, unhampered by government controls.

In England, for example, the housing goal of 200,000 units for 1951 fell almost 80 per cent short. Private building of apartments for rent has gone forever and even the future of any private home ownership is in grave doubt.

Thousands of people wait for homes. One private permit may be issued for every four of government housing, such permit is permissible and not mandatory with the result in many localities no private permits to build are issued at all.

Home ownership in America has always been a way of life, it's your responsibility to keep it that way.

* * *

The 1953 Federal Budget of $85.4-billion is greater than ALL THE INCOMES of ALL THE PEOPLE west of the Mississippi.

* * *

A WISE PROGRAM

"If business is to be saved, it must be explained."

In recognition of the simple fact that "business" either goes ahead or goes behind and that under present, rapidly changing and expanding world-wide economic conditions, it takes a lot of forward motion and effort for the average enterprise to maintain a status quo position, a vast new educational program has been launched in America to solve one of the very important problems of modern business complexities.

Sponsored by business, industrial, and financial leaders who recognize the acute need of acquainting many of their own employees and the public in general with some of the basic factors of American business procedures, this new educational effort is designed to eliminate the misconceptions of the true relationships between all phases of private enterprise.

This might be an excellent time and opportunity for those in Professional enterprise to launch a nation-wide educational program also.

Professional enterprise needs to be explained to the public just as fully as does any other enterprise. The average Mr. and Mrs. Public and the average Professional practitioner have too little understanding of each other.

Architects, Engineers, Contractors and allied interests are obviously faced with clearly discernible social and governmental trends, which if allowed to develop unhampered, could easily lead to a program of unnecessary and undesired bureaucratic controls.

Any educational campaign intended to explain a Profession, or business, is not an easy project to stimulate, even within the membership of the particular group affected, however, difficult as it may be it is still easier than trying to adjust yourself to compliance with arbitrary directives, or to conduct a public educational program seeking relief from an unfavorable situation already in existence.

LUMBER GRADES and INSPECTIONS

WEST COAST LUMBER INDUSTRY'S SCOTLAND-YARD BOASTS ENVIABLE RECORD OF MAINTAINING HIGH STANDARDS AND MEMBERSHIP PARTICIPATION

Out in the West Coast Douglas fir industry, apparently everybody loves honesty. How else account for the fact that the lumber industry's remarkable "Scotland Yard"—the West Coast Bureau of Lumber Grades and Inspections—today boasts its all-time high membership of supporting mills.

On January 1, 1952, this unique organization had 501 members whose combined output of West Coast species accounted for 75% of all lumber manufactured in the Douglas fir region; an all-time high—as ten years ago only 254 mills were supporting the grading and inspection program.

What has caused this rather astounding growth? During the war years, when grade-marked lumber brought a premium and many mills wanted and needed the service of this bureau, membership held about even. The big growth then has been in the past half a dozen years.

To Howard L. Brown, veteran of 32 years in the lumber business and general superintendent of WCBLGI, the increasing popularity of the Bureau is a mystery to be solved, but to H. V. Simpson, manager, the growth of the Bureau represents an increasing acceptance of the integrity of the Bureau grade-mark throughout the nation and continuing confidence in the hand-picked 180 inspectors and supervisors who make up the staff.

Simpson pays Brown credit for the Bureau's uniformly high standing throughout the lumber manufacturing and consuming areas.

"Brown has the ideal temperament for this most difficult post," Simpson pointed out. "He has the highest personal integrity and demands the same unassailable traits in his men. He is fair."

Best evidence of the high esteem in which this grading and inspection Bureau is held, Simpson observes, is the fact that mills find it easier to sell lumber which is under the supervision of the inspection bureau. Both buyer and seller accept the final decisions of this unique organization without question. The government recognizes its grade-mark integrity.

The Bureau has seven main functions, and to finance these activities West Coast sawmills last year spent $1,331,722.67. In addition, mills in the same region spent another large sum in 1951 in support of the Pacific Lumber Inspection Bureau whose inspection work is largely in cargo for export.

Few other industries in the nation approach this monumental effort of the West Coast lumber industry to guarantee the uniform quality of its products. The expenditure of nearly $3,000,000 annually by this region to insure and maintain quality product controls is one of the high-water marks in industrial honesty.

Main purposes of the Bureau are: (1) to write, adopt and make available grading rules for West Coast species; (2) to interpret these rules; (3) to supervise the grading practices at the member mills so as to insure that the correct standard of grades is maintained at all times; (4) to educate and instruct people in correct grades and grading procedure; (5) to maintain and supervise the correct grade-marking of lumber when its official grade-marks are used; (6) to inspect and certify any shipment of West Coast species upon request; and, (7) to reinspect any shipment of West Coast species upon request.

Any manufacturer of West Coast species in the producing area can be a member of this Bureau. Ninety per cent of all lumber manufactured in the area is under the supervision of a qualified grading bureau. If not a member, any producer in the producing area or user of West Coast species can have use of any of the Bureau's services at a reasonable charge. All services of the Bureau are furnished at estimated cost. Grade-mark stamps are guarded zealously and use of these U. S. Government registered symbols is closely supervised for in their proper use lies the strength of this most unique of all industry-financed police forces.

First efforts to create a uniform system of grading on the Pacific Coast was undertaken in 1901 and rules adopted at that time became the basis for rules later enlarged and expanded by the Wets Coast Lumbermen's Association grading department when it was founded in 1911. There still exists a grading rule book dated 1898 and issued by California buyers of West Coast species.

Superintendent Brown has a "Little Scotland Yard" organization, even to the names of his staff members. Directly beneath him is H. H. Bethell,

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AMERICAN INSTITUTE OF ARCHITECTS EMPHASIZES IMPORTANCE OF DESIGN

ANNUAL CONVENTION IN NEW YORK CITY JUNE 24-27 OF INTERNATIONAL IMPORT

The importance of the design of buildings in forming environments for human activity will provide the theme of the 84th annual convention of the American Institute of Architects, Glenn Stanton, president of the architects national professional organization has announced. The architects will meet in New York City, June 24 to 27.

The theme of the convention will be developed in its program to illustrate the formative influence of the architect's work, whether in the design of a modest individual house or of an entire city. The meeting will be addressed by leading members of the profession and guests especially chosen for their ability to contribute to the theme. A final program with the names and subjects of all speakers will be sent all A.I.A. members in the near future.

Arthur C. Holden, New York architect and convention committee chairman, heads a group that is arranging visits to buildings in New York, tours, inspections of architectural offices and other activities that will further illustrate the idea of architecture as a factor in man-made environment.

The great gain in building technology which has given today's architects unparalleled resources with which to create new environments, will receive special emphasis. The theme of the building products exhibit, "Structural Resources for Architectural Design," will carry out this idea. Executive arrangements for the exhibition have been undertaken by the Producer's Council, national headquarters in Washington, D. C.

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REPORT OF AMENDED FAIR LABOR STANDARDS ACT AS APPLIED TO CONSTRUCTION INDUSTRY

BASED UPON STATISTICS OF THE U. S. LABOR DEPARTMENT'S WAGE AND HOUR PUBLIC CONTRACTS DIVISION

Are employers in the construction industry generally complying with the amended Fair Labor Standards Act? Does the record indicate that management has a firm grasp of the Fair Labor Standards Amendments that went into effect on January 25, 1950? Recently released statistics on the first full year of operations under the amended Federal Wage and Hour Law show that there is room for improvement.

According to the 1951 annual report of the U. S. Labor Department's Wage and Hour and Public Contracts Divisions, 62 per cent of the establishments investigated in this industry during the past fiscal year were found to have violated the Act's minimum wage, overtime pay or child-labor provisions.

"The 1951 record makes it clear that greater efforts on the part of some members of the construction industry would pay off in reduced liabilities for back wages owed employees," points out Wm. R. McComb, the Divisions' Administrator. His report shows that a total of $331,229 in back wages was paid to 5,092 employees, as a result of the Divisions' activities. This sum does not include amounts awarded by courts to employees who exercised their statutory right to sue for back pay and liquidated damages.

"Although most employers know that the amendments raised the minimum wage to 75 cents an hour from 40 cents, the Divisions found that a sizeable minority of establishments—14 per cent of those investigated—had failed to observe this requirement when paying some of their employees," states McComb.

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NOTICE!

Extended consideration of recent recommendations of A.I.A. and Producers Council national committeemen representing the **"Joint Information Committee"** has delayed release of further reports of A.I.A.-P.C. consideration of "uniform specifications" procedures.

This national program, which was inaugurated at the local A.I.A. Chapter level, will be further reported by ARCHITECT & ENGINEER as information on committee consideration, recommendations and action becomes available.

—A&E, Editor.

NEWS and COMMENT ON ART

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, has scheduled the following special exhibitions and events for the month of March:

Exhibitions: Fifth Annual of the Association of San Francisco Potters; Paintings and Sculpture by Barbara Herbert; Pacifica, an exhibition of Furniture, Textiles and Ceramics; Abstractions in Thread by Mariska Karasz; Chinese Paintings by Tseng Yu-Ho; Paintings and Watercolors by Harry Krell; and a group of Paintings by V. Douglas Snow.

The Museum also offers Permanent Exhibitions in the fine and applied arts and historical collections.

Among educational facilities and special events are lectures and Gallery tours, study rooms, art classes (for adult and children) and an art reference library.

PORTLAND ART MUSEUM

Thomas C. Colt, Jr., director of the Portland Art Museum, West Park and Madison, announces the following special events and exhibitions for March.

Pre-Historic Stone Sculpture of the Pacific Northwest; Work of Charles Heaney, Portland Painter and Printmaker; and a special showing of Photographs of Indians of the United States (1907-1930) which has been prepared by Edward S. Curtis. It is his second series of such photographs.

A number of Museum activities are also scheduled.

ART COLLECTION FOR RENT BY UNIVERSITY OF CALIFORNIA

The University of California Extension at Berkeley has made a circulating art exhibit available to the public.

The exhibit consists of 16 sets of prints, collected from art galleries throughout the world. Providing an unusual opportunity for the study and enjoyment of outstanding works of art, the sets may be used as gallery displays, for club programs, school and classroom exhibits, or for individual study.

Each set contains from 40 to 60 prints mounted on neutral gray matting board. An illustrated catalog giving information about the artists and their times is included.

The 16 groups are: Pre-Renaissance; Italian Renaissance (Florentine-Roman); Italian Renaissance (Venetian); Flemish-Dutch (Parts I and II); Rembrandt, Rubens, and Hals; Spanish; German; English-American; French (before impressionism); Impressionists; Van Gogh and Cezanne.

Contemporary French Painting; Picasso; Braque and Matisse; Contemporary American Painting; and Contemporary Painting of England, Italy, Germany, Norway, Cuba, South America, and Mexico.

MILLS ART GALLERY

The Mills Art Museum, Mills College, Oakland, is showing a special Centennial Exhibition of the best of its permanent collections, including painting, the graphic arts, sculpture, photography and the applied arts.

The work includes the Orient, America, and the Occident.

The exhibition will be open each Wednesday and Friday and Sundays from 2 to 5 p.m., March 6 to May 10.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, offers a variety of special exhibitions and events for March.

Exhibitions: 71st Annual Exhibition of Painting and Sculpture of the San Francisco Art Association; Contemporary Pottery and Jewelry; Paintings by Helene Schjerfbeck of Finland and an American Federation of Arts Exhibition; Contemporary Mexican Art; Prints by Podowski and Mrozewski of Poland; and Art Makes Contact, an offering prepared by the California School of Fine Arts.

A number of special events are scheduled including concerts and lectures and free classes in painting for adults and children.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice

(See Page 35)

J. W. ROBINSON COMPANY

NEW DEPARTMENT STORE

BEVERLY HILLS, CALIFORNIA

The strikingly handsome J. W. Robinson Company's new six-million-dollar complete department store is an outstanding example of contemporary architecture and interior planning. It offers a lavish setting for fine quality merchandise ranging from women's high-fashion apparel to pots and pans.

Situated on a seven-and-a-half acre site in the heart of Beverly Hills, the new store is flanked by Wilshire and Santa Monica Boulevards, two of Southern California's major traffic arteries and the site is adjacent to the Los Angeles Country Club.

"The new companion store to Robinson's Downtown Los Angeles store," stated Edward R. Valentine, president, "meticulously follows the dictates of progressive merchandising practices and good taste for which the company has been known for more than sixty-nine years, and from the first sketch by the store designers to the completed building, no effort has been spared to accomplish the motive of creating one of the country's finest department stores."

From terrazzo paving to roof top, the new struc-

ture embodies the work of a multitude of creative craftsmen. Deep, soft-toned carpets, specially designed fixtures, the subtle use of color—all contribute to the atmosphere of smart luxury throughout the building's four stories. Proving that a structure can be both beautiful and functional in the overall design, for beneath the contemporary exterior lie architectural and engineering concepts that are based upon the most modern store planning methods.

Architecturally the new department store represents a number of innovations for the Pacific Coast: It is the largest field-welded structure on the West Coast, with approximately 1700 tons of steel going into its construction; It contains one of the largest unobstructed areas with the center section of the first floor being 64 feet wide by 180 feet long without supporting columns; The building utilizes the largest amount of white marble ever used on a West Coast structure; and the parking area is one of the largest of any West Coast store, providing for the handling of 1100 automobiles at one time.

In addition to these features, the six-million-dollar store represents advanced architectural design and aesthetic beauty, and yet is based upon merchandising and customer requirements.

The frame of the building is welded steel, in which approximately 1700 tons of giant beams and girders were fused together to form the building's skeleton. The interior arrangement decreed that the first floor should be unencumbered with columns or supports, with the result that a huge open vista area offers extreme accessibility, spaciousness and fluidity of store traffic. In addition, a high degree of flexibility permits for departmental rearrangement without costly structural work, and without changing lighting and sprinkler installations.

The building's exterior has been handsomely faced in Imperial white Danby marble from Vermont, black Andes granite from Brazil and architectural concrete. The marble has a honed finish and comprises the largest amount of white marble ever used on a Pacific Coast building. Alternate panels of black granite and large glass sections are used on the exterior of the first level, permitting window shoppers to view the entire floor. Above and beyond the marble, granite and glass is architectural concrete. The concrete is painted with a special surfacing that gives it a third dimensional quality. Anodysed aluminum provides the metal trim.

Of interest to visitors is the unique Garden Level, which has one wall entirely of glass, looking out on exotic California landscaping. In addition to the charm of the adjacent garden, surrounded by olive and palm trees and which has a focal point comprising statuary created by Bernard Rosenthal of Malibu Beach, the Garden Level is devoted to

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ARCHITECTURAL DESIGNERS

William Pereira and Charles Luckman, senior partners in the architectural firm of Pereira & Luckman, and Charles O. Matcham, a veteran Los Angeles architect, worked jointly in developing the new J. W. Robinson Department Store in Beverly Hills, Calif.

CHARLES O. MATCHAM

WM. PEREIRA & CHAS. LUCKMAN

home furnishings from domestic and foreign markets. Here is found furniture, china, glass, lamps, curtains, draperies, gifts, appliances, radios, television, housewares, toys and an interior decorating studio. At night the view from this floor is greatly enhanced by the colorfully illuminated garden.

Private driveways to the store entrances lead from both Wilshire and Santa Monica Boulevards. The driveways continue to the two-level parking structure that accommodates 1100 cars. This area was developed by utilizing the slight slope of the site, with an upper deck built to park cars on the same grade as the first floor on the Wilshire side of the building. The lower level parking area is on the same grade as Santa Monica Boulevard. A private drive, 40-feet wide, connects both parking levels. This is one of the largest parking areas provided by any West Coast store.

Because the store-planners oriented the structure to merchandising requirements, use of long steel girders provide an unobstructed area of 64 by 180 feet on the first floor. Merchandise is offered on the "open vista" plan, so that patrons can view all departments and shops on this floor from any point in the large main floor area.

The first floor contains a group of related high-fashion shops known as "The Beverly Shops" in which patrons find women's sportswear, coats and suits, gowns, including the Adrian collection, furs, Bridal Shop, millinery, shoes and a Boutique. Silverware has been included among the departments on the Wilshire level, as have luggage, jewelry, hosiery, gloves, bags, cosmetics, blouses, stationery and candy.

The men's store occupies nearly one-fourth of the space on the first floor, and has its own entrance

Detail showing magnificent sweep of first floor interior arrangement and several Beverly Shops flanking the Adrian Shop. Richness of walls and floors and women's shoe department at left is indicative of the entire building which represents an investment of $6,000,000.

from Wilshire Boulevard. In this area are men's suits, overcoats, sportswear, furnishings, shoes and hats.

The second floor contains the "Robinaire Shops," which feature women's and misses' fashions at budget prices, the Young Californian shop, intimate apparel, the "Children's World," yard goods, notions and art needlework. The third floor, although designed to be expanded into selling areas, will be occupied by personnel offices, employees' cafeteria, terrace, rest rooms and hospital, as well as "The Pink Tent," an unusually attractive quick-luncheon facility for shoppers, which will be in operation in the near future, when strategic materials are available to permit installation of necessary equipment.

In the center of the building, two elevators and two moving stairways form a vertical transportation core. The moving stairways, four feet wide, will each accommodate 8,000 persons per hour.

The entire lighting throughout the building provides the best features of both fluorescent and incandescent lighting and were scientifically developed for specific use.

The building is set back 80 feet from Wilshire Boulevard, providing room for attractive landscaping, as well as ample sidewalks. Old olive trees, with dark green shrubbery, extend across the face of the building to contrast with green lawns. Landscaping in the garden will follow season trends.

The actual planning of the new store goes back to 1947, when Raymond Loewy Associates commenced a study for the project. This study followed a previous economic study, made by George J. Eberle, which predicted the continuous growth of Beverly Hills and the western part of the Los Angeles area. In the Loewy study, directed by William T. Snaith, partner of the group, it was

A section of the second floor shows the "Robinaire" shops in which women's budget-priced merchandise is offered. Floor are fully carpeted in subtle tones and scientific lighting and attractive colors and designs add to store's beauty.

determined that a complete department store was needed in Beverly Hills, and because of the buying habits of residents of the area, the store should be of the inverted type. In this concept, the store would offer on its first floor a series of high-fashion shops, conveniently related. A version of "arcade" shopping amid sophisticated specialty shop surroundings was the result.

Interior design has been concerned with the imaginative use of color, lighting and decoration along with such essential factors as customer-traffic flow. All floors are completely carpeted, to make shopping physically pleasant. Lighting combines incandescent with fluorescent illumination, and specially-created chandeliers and wall-fixtures enhance the atmosphere of each area. Decoration includes the use of both new and old materials in a pleasing manner for wall, panels and floating shadow-boxes. Hand-painted murals, in simulated primitive techniques, grace the walls of shops and fitting rooms.

Customer services, in addition to comfortable carpeting, scientific lighting techniques and imaginative decoration, include time-saving package chutes that permit packages to be wrapped in a central room and quickly delivered by mechanical means to the package desk at the carriage entrance.

Just as a jewel demands a superb setting, so does the store deserve the finest in exterior arrangements.

Florence Yoch, landscape architect, selected old olive trees with ground work lacy Philodendrons, dark green Aucubas and other tropical plants for planting across the front of the building, with bands of grass for contrast in greens.

The attractive Garden Level offers a complete home furnishing floor. Entire area is floodlighted by daylight from the richly planted garden seen through the glass wall. Beyond the garden are parking facilities for 1100 cars on a two-level parking structure.

The garden, which provides the tropical verdure associated with fine California establishments, also offers facilities for occasional exhibitions, fashion shows and similar events. The garden has been planted with full-grown trees of historical California types, including Mission olives, Canary pines, tropical palms and jacarandas.

Two stairways from the driveway and upper parking deck give access to the garden, and wide-paved walks lead to the doors of the ground floor departments. These walks are separated from the center of the garden by raised beds, which are planted with flowering shrubs giving seasonal color. During the winter season the beds will have large camellias and Chinese magnolias; in spring, wisteria, azalea and coral trees; in summer, hibiscus and blue jacaranda; and in the autumn, a hint of autumn foliage.

A focal point of the garden is a sculptured unit, created by Bernard Rosenthal, distinguished California sculptor. His design, executed in bronze and brass, is developed around an aquatic theme, interpreted through underseas plant and animal forms. Mr. Rosenthal integrated his design with the architectural concept of the building.

Parking of cars without crowding was a prime consideration in the location and design of the store. Following an analysis, adequate parking facilities for 1100 cars simultaneously is provided. Allowing for an anticipated turnover of three and a half times per day, a total of 3500 cars can be accommodated on the two-level area.

The upper parking level is at the grade of the first floor on the Wilshire Boulevard side of the building, while the lower level is at the grade of Santa Monica Boulevard and the garden floor. Both levels are connected by a private drive forty feet wide.

Architects-engineers for the building were Pereira & Luckman, with Charles O. Matcham, architect. William T. Snaith of the Raymond Loewy Corporation was the store designer. Page Edward was project manager for the general contractors, the William Simpson Company. Landscape architects were Florence Yoch and Lucile Council, while other personnel included Paul Jeffers, structural engineer; Samuel E. Kaye, mechanical engineer; and Chauncey E. Mauk, electrical engineer.

"Open-Vista" sales space at the first floor provides ideal merchandise display.

FRONT ELEVATION OF THE NEW W. W. ROBERTSON BUILDING

STREAMLINED NEWSPAPER PLANT

DESIGNED WITH AN EYE ON TOMORROW

YAKIMA, WASHINGTON

By ARTHUR W. PRIAULX

Architect: JOHN W. MALONEY
General Contractor: HOWARD S. WRIGHT

In the sleek, streamlined W. W. Robertson Building, home of Yakima, Washington's two daily newspapers, Architect John W. Maloney has come up with a dream publishing plant.

Simplicity is the key note of the structure throughout. The pale, tan exterior walls of Indiana limestone blend well with the eastern Washington desert country. Only one story appears above ground, with the exception of a small second floor which houses refrigeration and ventilating equipment. A basement, larger than the ground floor, reaches to the street line.

Architect Maloney had the problem of developing a publishing plant which would be weather-constant inside to facilitate proper printing conditions as well as to create healthy working conditions throughout the building. He wanted a sound-proofed structure where fatigue from noise could be kept to a minimum. He needed to create lighting, as near to natural light as possible.

Those problems were not too difficult to solve.

Interior weather control was accomplished with the installation of a combination heating system which works as a cooling system in summer. Most of the heating and ventilating machinery is in the second-floor at the rear. Sound proofing was accomplished by covering all celings and one third of all office walls from the ceiling down with acoustical tile and noise has been pretty well licked.

Daylight comes from the even glow of recessed fluorescent lighting fixtures installed throughout the two floors.

The real problem confronting Architect Maloney was to design a building which would combine the peculiar requirements of a modern newspaper's manufacturing plant with the news and business offices without conflict. For maximum efficiency a production flow must be maintained. News and advertising copy must flow smoothly to composing rooms, pictures to photo-engraving, then type and engravings must flow on to stereotype rooms and then stereotype plates must move quickly to pressroom and finished papers must hustle on to mailing and distribution rooms.

Maloney started his basic floor plan by separating the main divisions of the newspaper with sound proof walls of glass brick. Even the main

PRIVATE OFFICES: Easily available to public. Small reception desk is provided for reporters to interview callers.

BUSINESS OFFICE: Showing Public counter at left center. Acoustical tile ceiling reduces noise and recessed lighting eliminates eye strain.

newspaper press room was cut off from the composing room.

Across the front of the main floor, on either side of the imposing entrance and lobby, stretch a row of private offices which house the publisher and other executives of the two newspapers.

The general public is greeted by the combination receptionist and PBX operator when they step into the lobby and from there can be directed to any part of the sprawling publishing plant. A bank-type counter opens from a hallway to the business office where customers can be served by any department.

All business offices are to the right from the lobby. Here in an office-within-an-office are housed circulation, accounting, business and advertising offices with special rooms around this larger space for bookkeeping machines, addressograph machine, vault and manager.

Copy from the advertising department goes directly to the composing room. A door connects the two departments.

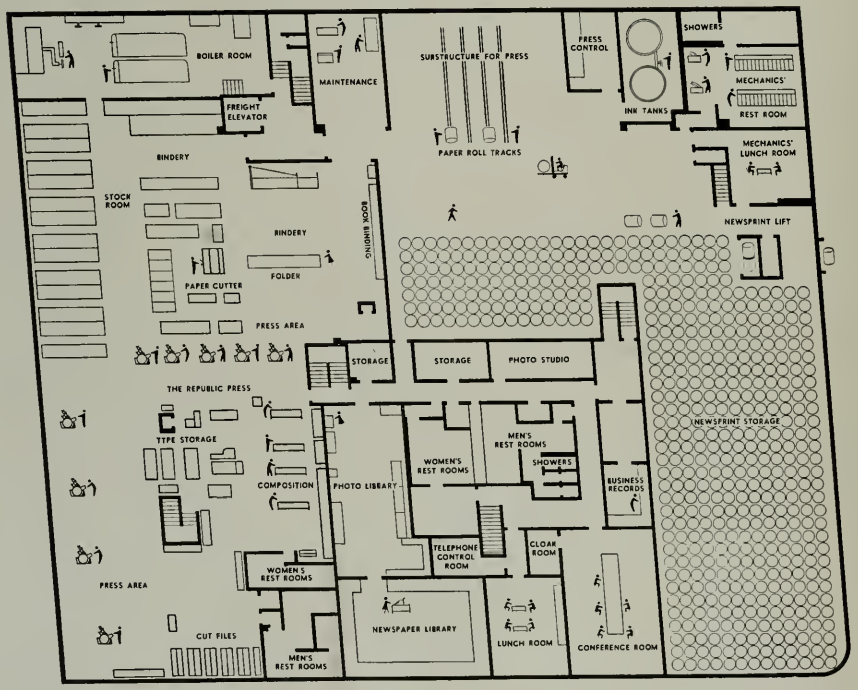
The news department opens from the left of the lobby. This is a streamlined office with copy from reporters and teletypes feeding to copy desk and finished copy going by pneumatic tube to composing room. Galley proofs come back to the copy desk by the same method. Photo engraving and offset plate making is done in a special department—a series of rooms—which adjoin the news room.

Composing room, stereotyping, press room occupy about a fourth of the ground floor. Press controls, newsprint storage and substructure for the new 64-page Goss news press occupy space in the basement directly beneath the composing room.

The commercial printing plant, separate entity from the newspapers, occupies one corner of both floors and has its own entrance at one corner of the front of the building.

Every effort has been expended to achieve a building which combines eye appeal and complete utility as well. Following the general scheme

BASEMENT



FLOOR PLANS

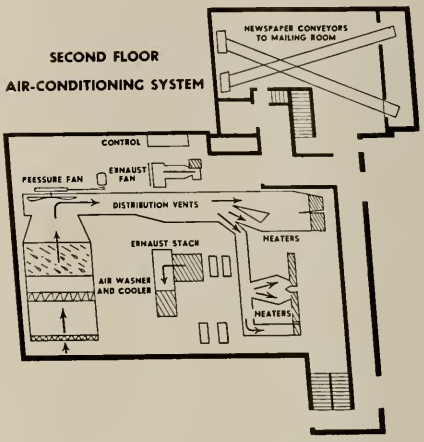
On opposite page is shown the BASEMENT PLAN—Press room, composing area, employees' utility and conference rooms, newsprint storage and building maintenance department.

TOP RIGHT (this page) shows plan of second floor air-conditioning system.

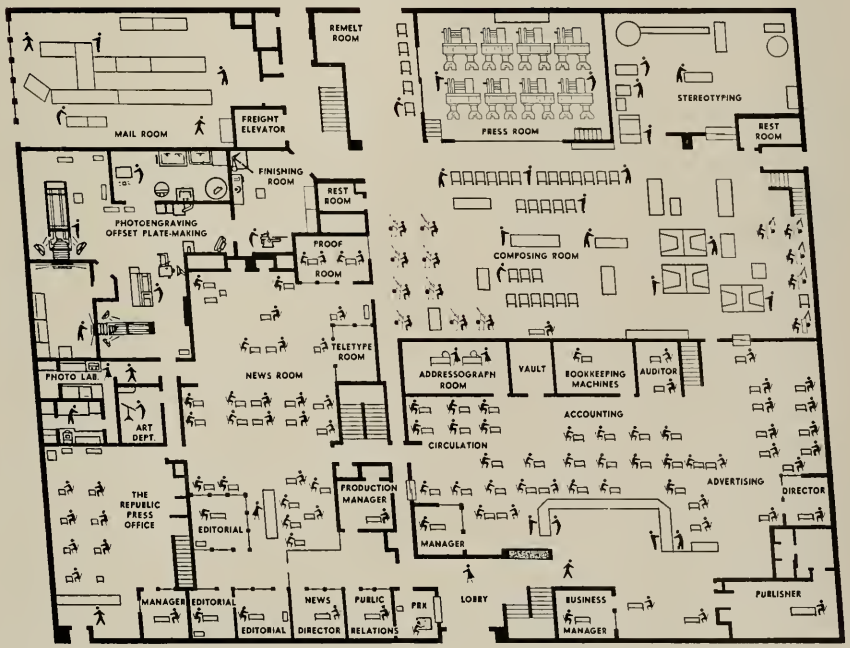
Below is FIRST FLOOR PLAN showing arrangement of Business Office, News Department, newspaper composing room, newspaper press area, and executive offices.

SECOND FLOOR

AIR-CONDITIONING SYSTEM



FIRST FLOOR



Portion of odvertising department. Advertising Director's office with clear vision of department is shown at rear right.

News Roam (belaw) is noiseless model af efficiency with constant daylight adding to comfort af reparters and editors.

Stereotyping Room

Shows how outdoor light and artificial light are combined to give workmen the maximum needed "sight."

Composing room (below) with wooden black floors and recessed lighting. This department, like all others, is separated by glass brick walls.

Production Department: Showing some details of building installations—wooden block floor, ventilation ducts in ceiling, and recessed fixtures for all lights.

Press Room: One that has plenty of light and is so designed that workmen have easy access to every unit.

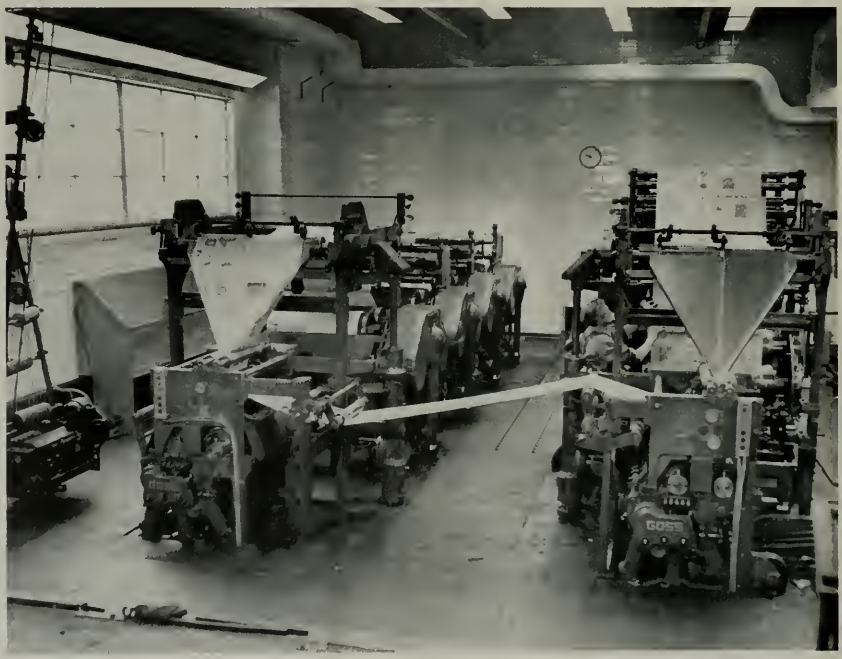
of refined simplicity which a straight-lined building seems to give, a base of gray-black granite, streaked with coral pink, runs the full length of the building at sidewalk level and the same material makes up the imposing entrance to the structure. Pale green windows set off the tan and pink coloring.

Walnut panelling for counters, railing and trim make an attractive vista for the visitor as does the terrazzo flooring and the gay color scheme of the offices which are restful to the eye. Employee comfort has been the dominant factor behind much of the planning in this building.

The structure has been designed to carry two additional floors, in the event the community develops to the point where such expansion is needed. The overall size of the building is 140 by 175 feet on the ground floor and the slightly larger basement gives a combined floor space of 64,000 square feet. The building is deceptive in appearance and doesn't look as large as its actual size because of the usable space below ground level.

The building is reinforced concrete. The walls of the press room are built of glazed block to facilitate cleaning in this department.

(See Page 43)



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ANNUAL CONVENTION CALIFORNIA COUNCIL OF ARCHITECTS

The 1952 Annual Convention of The California Council of Architects has been set for October 8-9-10, in Yosemite Park, according to an announcement by Fred A. Chase, executive secretary of the Council.

"Space is limited in Yosemite, so we are announcing the 1952 convention dates in plenty of time for every architect to make plans to attend," stated Chase.

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SOUTHERN CALIFORNIA CHAPTER

Bryant Essick, president of the Essick Manufacturing Company of Los Angeles, and prominent in many civic affairs, addressed the March meeting on the subject "A Business Man Takes a Look at South America."

Essick is president of the Merchants and Manufacturers Association, the largest regional employer's association in the United States.

Also speaking at the meeting on the activities of the Board of Public Works, was C. Don Field, president of the Board of Public Works for the City and County of Los Angeles.

SAN FRANCISCO ARCHITECTURAL CLUB ANNOUNCES ANNUAL SEMINAR

The San Francisco Architectural Club is again offering an architectural seminar, or review course, for those who plan to take the examination of the California State Board of Architectural Examiners this year.

The seminar will consist of twenty lectures given by well qualified men of the architectural and engineering profession and will cover all the divisions of the examination.

With a few exceptions, the seminar lectures will be given only once a week, thus affording an opportunity to read reference material between class meetings. Each lecture will last approximately two hours on the following subjects:

Design and Supervision of Mechanical Equipment, I, II, III, and IV; Architectural History, I, II, III, and IV; Materials and Specifications; Architectural Engineering I, II, III, IV, V, VI, and VII;

Nevada Chapter:
George L. F. O'Brien, President; Aloysius McDonald, Vice-President; Graham Erskine, Secretary; Edward S. Parsons, Treasurer. Offices 160 Chestnut St., Reno.

Nevada State Board of Architects:
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Santa Barbara Chapter:
Wallace W. Arendt, President. 219 La Arcada Bldg., Santa Barbara.

Southern California Chapter:
Charles E. Fry, President; Henry L. Wright, Vice President; C. Day Woodford, Secretary; Robert Thomas, Treasurer; Directors: S. Kenneth Johnson, Kemper Nomland, Wm. B. Bolch and John J. Landon. Ex. Sec. Rita E. Miller, Chapter Headquarters, 3723 Wilshire Blvd., Los Angeles 5.

Spokane Chapter:
B. K. Ruehl, President; Victor L. Wulff, 1st Vice-President; Philip Keene, 2nd Vice-President; Laurence G. Evanoff, Secretary, and Carroll Martell, Treasurer. Office 515 American Legion Bldg., Spokane, Washington.

Utah Chapter:
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Tacoma Society:
E. N. Dugan, President; P. G. Ball, Vice-President; Lyle Swedberg, Secretary-Treasurer.

Hawaii Chapter:
James C. Simms, President; Alfred Preis, Secretary, 1507 Kapialani Blvd., Honolulu, T. H.

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Producers' Council—Southern California Chapter:
Harold F. Smith, President, Gladding, McBean & Co.; Bert Taylor, Vice-Pres., Pittsburgh Plate Glass Co.; Richard Seaman, Sec., W. P. Fuller Co.; Clay Snider, Treas., Minneapolis-Honeywell.

Producers' Council—Northern California Chapter (See Special Page)

Architectural Practice and Supervision I, and II; Architectural Planning; and Architectural Design.

The course is designed for those who are ready to take the State examinations this year, and are not designed or intended for beginners. Complete information is available from Club headquarters, 507 Howard Street, San Francisco.

WASHINGTON STATE CHAPTER

Robert Jones, member of the City Council of Seattle, spoke at the March meeting on the subject of "Architecture in Europe," having just returned from an extensive trip abroad. Also attending the meeting were William F. Devin, Mayor of Seattle, and Allan C. Pomeroy, who spoke briefly on the subject of building codes.

Edward L. Turner, Associate, and Chester L. Brown, Junior Associate, were welcomed as new Chapter members.

ARCHITECT LECTURES AT PORTLAND ART MUSEUM

Marion Ross, assistant professor of architecture at the University of Oregon, gave a lecture recently at the Portland Art Museum in conjunction with the Museum's outstanding exhibit of Portland Architecture, 1860-1890.

The lecture dealt with architecture of that period in the Portland area.

ARIZONA CHAPTER

The annual meeting of the Arizona Chapter of The American Institute of Architects was held March 1 in the Student Union Memorial Building on the campus of the University of Arizona.

Richard Drover of Phoenix was elected President, and chosen to serve as officers of the Chapter with him were Lew Place of Tucson, vice President; Martin Ray Young, Jr., of Mesa, secretary, and Fred O. Knipe of Tucson, treasurer.

The Executive Committee of the Chapter for the new year includes Richard Drover, Martin Ray

(See Page 32)

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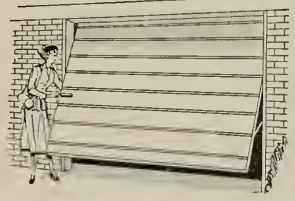

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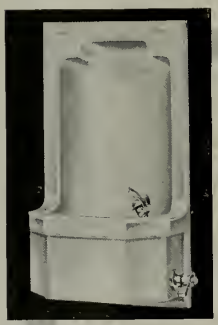
STRUCTURAL ENGINEERS ASSOCIATION SOUTHERN CALIFORNIA

Donald F. Moran, structural engineer with the Pacific Fire Rating Bureau spoke at the March meeting on "Design Factors Affecting Earthquake Insurance Rates on Buildings," and on the same program were:

Inspector Donald G. Wilson of the Dangerous Chemical Detail of the Los Angeles Fire Department who spoke on "Methods of Segregating, storing, and Processing Dangerous Chemicals," and:

George Bundick, engineer of the Los Angeles City Department of Building and Safety who discussed the city's new "Dangerous Chemicals Code."

The Association has been invited to join with the American Society of Civil Engineers on May 14 to celebrate the 100th anniversary of that organization. The Los Angeles Engineering Council of Founder Society is joining with the ASCE in this celebration.



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DONALD F. SHUGART ELECTED PRESIDENT STRUCTURAL ENGINEERS OF CALIFORNIA

Donald F. Shugart, immediate past president of of the Structural Engineers Association of Southern California and consulting engineer with offices in Los Angeles, has been elected president of the Structural Engineers Association of California for the year 1952.

DONALD F. SHUGART, President SEAC

Graduating from the California Institute of Technology with a degree of B.S.C.E., Shugart served as a pilot in the U. S. Army during World War I, and during World War II served as Commander of Base, Group and Wing, U. S. Air Corps, holding the rank of Colonel.

With the close of the War, Shugart opened offices in Los Angeles for the private practice as a consulting engineer.

ANNUAL CONVENTION STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA

Ben Benioff, general chairman of the Annual Structural Engineers Association of California Convention, has announced that the 1952 meeting will be held in Riverside on October 16 to 18.

Annual conventions heretofore have been held at Yosemite Park and Coronado, alternating years, but the attendance has grown to such an extent

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Dan Wiltse, Ex. Sec. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

that the Riverside site was chosen for this year's annual convention, and according to chairman Benioff, "plenty advance notice is being given of this year's meetings, so we can expect even a greater attendance."

JOHN J. GOULD ELECTED PRESIDENT NORTHERN CALIFORNIA ENGINEERS

John J. Gould, consulting structural engineer of San Francisco, has been elected president of the Structural Engineers Association of Northern California for the year 1952.

JOHN J. GOULD
SEAN President

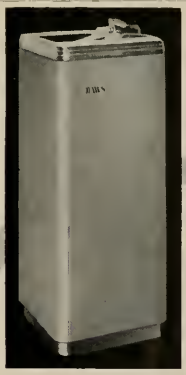
In taking office Gould announced a six-point program of activities including 1) assistance in the nation's Rearmament Program, encouragement of employment of professional engineers at equitable fees, oppose bids on alternate designs submitted by contractors, advise Armed Forces that preparation of standard plans for Western areas by Western designers will save money; 2) Collaborate with Civilian Defense Program based upon sound engineering principles, encourage exchange of views on long-term construction developments designed to furnish better bomb protection; 3) Give undivided support to Private Enterprise with minimum control by Government.

Promote adoption of basic principles of the Field Bill of checks and balances to other laws dealing with construction and the engineering profession. Reject principle of discriminatory legislation by the State against engineers and architects in private practice. Demonstrate to industry that continued maintenance of the private enterprise system is dependent upon strong professional groups; 4) Promote better Employer-Employee relations. Encourage the betterment of working conditions and the paying of adequate wages both in Government and private employ, to eliminate any need of unionism in the engineering profession. Analyze effects of centralized Government control on the security of civil service employed engineers; 5) Stimulate Research Programs for greater economy in construction. Explore the many possibilities of collaborative efforts with local universities; and 6):

Revise Building Codes where requirements are too stringent or do not meet present day conditions. Reduce conservative earthquake requirements of Appendix "A", San Francisco and Uniform Building Codes.

Other officers elected to serve with Gould included, G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Assistant Secretary; William K. Cloud, Assistant Treasurer; and Robert D. Dalton,

(See Page 33)



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PRODUCER'S COUNCIL PAGE

The National Organization of Manufacturers of Quality Building Materials and Equipment affiliated with THE AMERICAN INSTITUTE OF ARCHITECTS

President, Arthur C. Staat, **Natural Gas Equipment, Inc.**, 1150 Folsom Street
Vice-President, Fred A. Figone, **Otis Elevator Company**, 1 Beach Street
Secretary, Howard Noleen, **E. F. Hauserman Company**, 500 Second Street
Treasurer, A. L. West, Jr., **Aluminum Company of America**, Russ Bldg.

Edited by Phil Brown, OTIS ELEVATOR COMPANY.

On February 1 we had the pleasure of attending a dinner in honor of Mr. A. Naughton Lane, National President of the Producers' Council, Inc., at the Sir Francis Drake Hotel in San Francisco.

The guests present included many prominent local architects and engineers.

After dinner, and prior to Mr. Lane's address, we received an announcement from Mr. Art Staat, San Francisco Chapter President, concerning the actors and technical directors of the 21st Annual Jinx Production, "Bells-A-Poppin," a comedy in two acts and various other interruptions. The entire operation of writing the script, organizing the details, preparing the stage settings, and the performance by the outstanding cast of producers and architects was dubbed with the title, "Operation Oswald."

"OPERATION OSWALD"
Art Staat

It was only fitting that an award of achievement should be made in the presence of Mr. Lane and distinguished guests, and an appropriate statuette of "Oswald" was presented to everyone participating in the Xmas production.

The photograph of "Oswald" clearly shows that it is a product of true inspiration and architectural accomplishment, displaying a feeling and appreciation of the finer things of life. There was considerable discussion regarding the possibility that one of the producers or architects had actually modeled for "Oswald" but this was denied by the creator, Mr. Bill Corlett.

After the presentations, we had the pleasure of hearing Mr. Lane tell us about the difficulties that confront the building industry today. He pointed out that the building industry was the largest industry in the country during the past year and that it is the only industry of its size that does not have the proper type of organization in Washington.

It is because of this that we are not getting our proper share of the restricted materials while other non-defense industries, which do have adequate representation in Washington, are getting adequate supplies.

Mr. Lane went on to point out that the Government agencies are completely confused and that they are continually releasing contradictory information which spreads the confusion to the construction industry.

Although the various branches of the construction industry are represented, it was Mr. Lane's opinion that the various associations and councils are not sufficiently organized to shout loudly enough at the Washington level to bring about a correction in the allocation of the few materials that are holding up the entire building program today.

In conclusion, Mr. Lane stated that we are trying to bring about an organization in Washington which will alleviate the problem and he stressed the point that the construction industry must be organized at the local level before it can effectively present its case at the Washington level.

Informational Meeting by Johns-Manville Sales Corporation

The second informational meeting of 1952 was held on February 11 at the Palace Hotel in San Francisco, at which time the Johns-Manville Corporation presented the "Relative Merits of Various Insulating Materials."

The introductory remarks were made by Mr. George Connolly, while the major portion of the program was presented by Mr. Max Barton.

Although the title of this presentation indicated an extremely broad field, the major portion of the

(Continued on opposite page)

USE QUALITY PRODUCTS — MANUFACTURERS OF QUALITY BUILDING PRODUCTS — THE PRODUCERS' COUNCIL — CONSULT AN ARCHITECT

program was concerned with the benefits of mineral wool when used as an insulator.

Mr. Barton enumerated the advantages of mineral rock wool, which included its high insulation qualities, sound deadening and insulation effects and fire prevention when used in walls and ceilings which resulted in better health conditions, reduced redecorating expense due to the reduction in interior condensation, fire prevention and the reduction in furnace capacities for insulated structures.

Mr. Barton stressed the point that only mineral rock wool should be specified where fire protection is needed in schools and homes. It was pointed out that there were many substitute wools which will provide the same insulating characteristics but will not afford the same fire protection.

This meeting was different from others in that one material was considered in detail with the presentation of technical data and advantages. It is felt that this type of program will be of greater interest to the architects who specify this type of material.

The Council is very anxious to learn the reaction of both the architects and Producers' Council members to this type of informational meeting in lieu of the more general talks which have been presented in the past.

Hats Off Department

We offer our congratulations to Mr. Arthur C. Staat, President of the San Francisco Chapter of Producers' Council, who has been promoted to Manager of the San Francisco Office of the Natural Gas Equipment Company.

LABOR STANDARDS

(From Page 8)

"Even more extensive were overtime pay violations, found in 61 per cent of the investigated establishments. Employers should remember that the amended Act continues to require payment of at least time and one-half the employee's regular rate of pay for all hours worked in excess of 40 in the work-week, except where the Act specifically provides otherwise. What the amendments did was to define the regular rate to include all remuneration for employment except certain specied payments."

Failure to comply with the Act's child-labor provisions was disclosed in 2 per cent of the investigated establishments, McComb noted. The child-labor requirements set a minimum age of 16 for most jobs with 18 as the minimum for occupations designated hazardous by the Secretary of Labor. Employment of boys and girls of 14 and 15 years of age is permitted in a few types of jobs—such as office and sales work—under strict restrictions on hours and working conditions.

The Administrator wants members of the industry to know that the violations found last year were not representative of the compliance record of all employers whose employees come within the provisions of the Act. The Divisions' policy is to make investigations where there is reason to believe that violations will probably be found. Moreover, experience demonstrates that the great majority of employers intend to comply with the Act; in most cases, failures are due to misunderstandings about the statutory provisions.

To assist the construction industry in attaining full compliance, McComb invites any employer who has questions about the Federal Wage and Hour Law to inquire of the nearest regional office of the Divisions. These offices are located in the following cities: Boston, New York, Philadelphia, Birmingham, Cleveland, Chicago, Kansas City, Dallas, San Francisco, and Nashville.

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A.I.A. ACTIVITIES

(From Page 27)

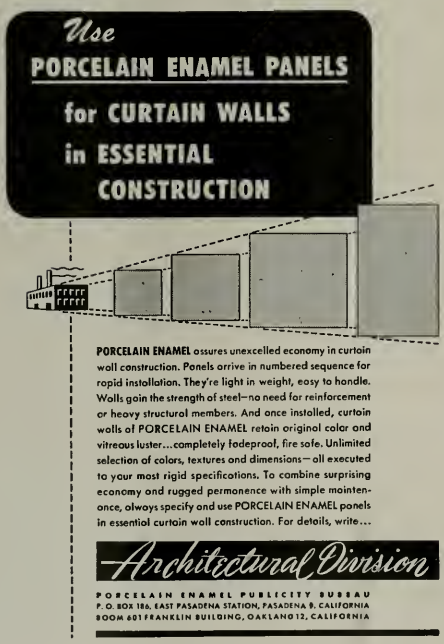
Young, Jr., Gordon Luepke of Tucson, Fred Weaver of Phoenix, and Ed Varney of Phoenix.

Wives of the architects and guests were taken on a conducted tour of the Union Building during the business session and later were shown a number of paintings donated to the University by the Kress family.

ARCHITECTURAL LEAGUE NEW YORK NATIONAL GOLD MEDAL EXHIBITION

The Architectural League of New York, organized in 1881, has held fifty-four annual exhibitions to honor the designers of work of high merit in the various arts, and has awarded gold and silver medals and honorable mention to many of those participating in these exhibitions.

Carrying on the spirit which has made these exhibitions such stimulating occasions, the League announces a series of exhibitions for 1952 of limited size and of potential Gold Medal quality. These exhibitions will be held in the League headquarters, 115 East 40th Street, New York, and will be under the management and direction of the National Gold Medal Exhibition Committee.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Five monthly exhibitions will be held for the following arts: Landscape Architecture; Mural Painting; Architectural Works; Design and Craftsmanship in Native Industrial Arts; Sculpture. These exhibits are to be limited to work executed since 1951, and work may be submitted as a single project or general in nature. Exhibitors must be citizens of the United States.

ARCHITECTURAL DESIGNS OF SCHOOLS PLACED ON DISPLAY

A preliminary exhibit of over 100 architects' designs for new school buildings throughout the United States and Canada, have been placed on display at Teachers College, Columbia University, New York.

The designs include site planning and blue prints, with many beautifully executed perspectives and miniature models.

The exhibit is to be shown in Los Angeles some time during the spring months.

A.I.A NATIONAL COMMITTEE ASKS FOR CRITICAL MATERIALS

Seeking a fair share of critical materials for the construction industry, representatives of The American Institute of Architects recently met with Federal officials in Washington, D. C.

Appearing on behalf of school construction was Henry L. Wright, vice president of the Southern California Chapter, A.I.A., and C. Day Woodford, Chapter secretary.

Architect and Government committee representatives also met with NPA and presented a program of advanced planning based upon availability of materials.

CALIFORNIA COUNCIL OF ARCHITECTS

The first meeting of 1952 of the California Council of Architects was held the latter part of February at the Hotel Claremont, Berkeley, with a record number of Chapter representatives and guests present.

Devoting two days to consideration of professional matters, a large number of subjects vital to the practice of architecture in California and the West Coast were discussed.

Tentative plans were made to seek the national A.I.A. Annual Convention for California during 1955 or 1956.

WITH THE ENGINEERS

(From Page 29)

John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick, Directors.

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

The March meeting was devoted to a three part discussion of current situations of particular interest: 1) "Addition to the Metropolitan Life Company Building," by Herbert L. Lyell, in which the new, modern structure being erected in San Francisco was thoroughly described; 2) a discussion of "Sheetrock as a Structural Material," by Robert R. Matheu; and 3) "After Lateral Forces — Then What? ! ."

New members recently welcomed included Lester C. Bush, Paul J. Cannell, and Richard J. Woodward. Merrill R. Neumann and Arnold Olitt, Affiliate Members; and John B. Jessup, Junior Member.

H. J. BRUNNIER, ENGINEER, NAMED ROTARY INTERNATIONAL PRESIDENT

H. J. Brunnier, San Francisco structural engineer, has been nominated for 1952-53 president of Rotary International, according to a recent announcement of the Club's nominating committee in Chicago.

Brunnier will become president when Rotary convenes for its annual international convention in Mexico City on May 25-29.

FEMINEERS

The March activities of The Femineers was centered around a "After Taxes Party" at the California Golf Club on the 15th.

Mrs. Art B. Smith, Jr., was in charge of arrangements which included a dinner and dance.

On March 19 the group held their regular meeting at the Elks Club, San Francisco.

NAMED ASSOCIATE DIRECTOR OF SOUTHWEST RESEARCH INSTITUTE

Dr. Louis Koenig, industrial research chemist and executive, has been named an associate director of Southwest Research Institute, San Antonio, Texas, according to an announcement by Dr. Harold Vagtborg, president.

Dr. Koenig goes to San Antonio from Palo Alto, California, where he was assistant director of research of Stanford Research Institute and was in charge of activities in chemistry, chemical engineering, air pollution, metallurgy, ceramics, food technology and applied biology.

Prior to his work on the Pacific Coast Dr. Koening served as research executive and chairman of chemistry and chemical engineering at the Armour Research Foundation of Chicago.

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A.I.A. DESIGN

(From Page 8)

Technical sessions of the convention will follow the general theme, but with greater emphasis on structural resources of the architect. A major focus of interest this year is the relation of structure to materials conservation objectives required by the defense effort. The program will include material on pre-stressed concrete, thin shell vault and dome construction, prefabricated structural unit construction in concrete, reinforced brick masonry, aluminum as structural frame material, and trends in structural design theory applied to reinforced concrete and steel, including welded steel. The American Institute of Architects wishes to acknowledge the Centennial of the American Society of Civil Engineers, and will invite members of that society to present certain aspects of the theme.

"The quarter-century since the American Institute of Architects last met in New York City have been rich in illustrations of the architect's work in housing, redevelopment and city planning," Mr. Holden said.

"Our work in designing airports, terminals, shopping centers and similar types of modern buildings has required the development of the architect's understanding of human activities, routines, and processes. Our buildings today are designed to strengthen and support activities. Today's architecture has become dynamic as it deals with the movement of people, the flow of traffic, or the requirements of people doing things. Whether we are designing a kitchen or a department store, our planning is responding to a new understanding of the importance of buildings as the place where things happen."

"In his analysis of such problems the architect enlists the contribution of many specialists—economists, engineers, analysts and experts of many sorts. These consultants are increasingly valuable. But in arriving at his solution and expressing it in design, the architect has to make his way pretty much alone. That is why architects are trying to strengthen and broaden their conception of their job."

"The idea of the organized man-made environment as a device for synthesizing and expressing the many functions of a building is one of our most productive concepts. It is equally important that our clients, those who build today, have a better appreciation of what is possible and desirable from the art of building in their own time."

The exhibition of building products will be the largest ever to be shown at an A.I.A. meeting, according to Mr. Holden. Over sixty leading manufacturers of building materials and equipment will show their products during the convention in an exhibition organized by A. Gordon Lorimer, New York City architect. The Producers' Council, an organization of manufacturers in the building field, is actively cooperating in the exhibition.

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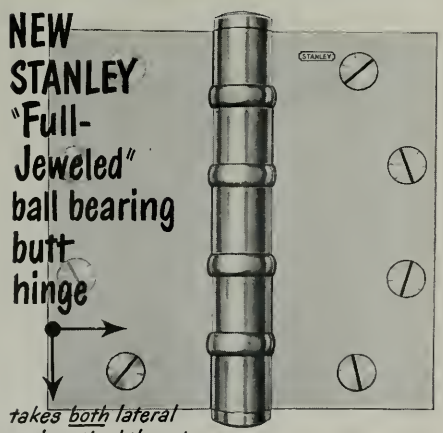

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PARKSIDE LIBRARY

(From Page 24)

to seek knowledge," in that it appears a good deal like a refined night club with its gay turquoise, yellow, and natural brick color scheme. It has spacious floor-to-ceiling windows which are set at a 45-degree angle, and in one corner is a natural brick fireplace with a giant copper hooded chimney that offers only the warmth and friendliness given by an open fire.

Sleek modern furnishings specially designed give the feeling of a plush living room. Floors are covered with quiet cork base material and built into the floor is a radiant heating and cooling system which keeps the rooms at even temperature.

Wide, folding doors have been provided so that the area may be set aside for educational or cultural meetings.

The main reading room is designed to receive a maximum of natural daylight which comes from a north exposure through a long wall of glass.

Roof overhangs are engineered throughout so that no direct sunlight strikes the interiors where people are reading. Free standing bookstacks divide the room at eye level into adult, teen-age, and juvenile sections, and the arrangement permits supervision by a small staff from a central library deck, or control center. The youngsters space, decked out with lint sized stools and special reading tables has proven very popular. Adjacent to this area is an outdoor reading terrace where children and adults may relax and enjoy the comforts of the out-of-doors and a good book. Bright, informal, landscaping in the terrace lends the atmosphere of a home patio.

The attractive entrance inaugurates an innovation in library buildings, in that adjacent to the large glass doors are built in display windows where new or currently popular books, manuscripts, and other items of outstanding public interest may be displayed and easily viewed from the exterior of the building.

The entire appearance of the building, exterior and interior, is that of a community center and visiting professional librarians who have seen the building since its completion proclaim it "the finest branch library in the country."

NEWS & COMMENT ON ART

(From Page 9)

Judd Ryan, is featuring the 10th Annual Pacific Coast Textile Exhibition of hand woven and hand printed fabrics during March.

The special exhibit is the work of forty designers and presents a diversity of western originality.

Decorative Cocks and Horses inspired by Mexican and Folk Art and featuring the work of Jesus Reyes Ferreira is being shown as the "Pictures of the Month."

ELECTED PRESIDENT ASSOCIATED GENERAL CONTRACTORS

Arthur S. Horner of the A. S. Horner Construction Company, Denver, Colorado, is the newly lected president of The Associated General Contractors of America, Inc., representing more than 6,000 leading construction firms.

He succeeds Glen W. Maxon of the Maxon Construction Company of Dayton, Ohio, who served as association president during the past year.

Other officers elected included C. P. Street of McDevitt & Street Co., Charlotte, N. C.; W. Murray Werner, The Werner Co., Shreveport, La., Chairman Building Contractors' Division; F. W. Heldenfels, Jr., of Heldenfels Bros., Corpus Christi, Tex., chairman High Contractors' Division; Edward P. Coblentz, McLean Contracting Co., Baltimore, Md., chairman Heavy Construction and Railroad Contractors' Division.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

TOOL STEEL HANDBOOK. By Allegheny Ludlum Steel Corpn., 2020 Oliver Building, Pittsburgh, 22, Pa.

A new 197 page book designed for engineers, teachers, metallurgists and others interested in tool, die and allied steels. It is intended also as companion literature to the previously published "Stainless Steel Handbook," and "Strength of Stainless Steel Structure Members as Function of Design" as well as other literature on silicon and electrical steels and other specialloy steels.

Contains charts and tables giving specific and comparative data on properties of all important grades of tool steels, analyses and applications; also detailed description of grades, arranged alphabetically for easy reference. Heat treating and handling techniques and a complete set of weight tables and other useful reference material is included.

Copies available to qualified persons upon request to Allegheny Ludlum Steel Corpn.

AN ESSAY TOWARD ARCHITECTURE. By Pierre C. Zoelly. Publisher, Carnegie Press, Pittsburgh, Penn. Price $2.50.

The book consists of a selection of graphic illustrations of some basic architectural ideas which the author first prepared in large poster form as teaching aids for beginning students. For the most part this series of drawings, and their accompanying notes, represent an approach to architectural design based upon Alberti's elements of architecture—the roof, the wall, the opening, etc., and the author has shown them with great clarity in their three basic stages of development.

The author has added a few illustrations of sample concepts which the freshman architectural student is asked to explore.

THE ENGINEERS ILLUSTRATED THESAURUS. By Herbert Herkimer. Publisher Chemical Publishing Co., Inc., 212 Fifth Ave., New York. Price $6.00.

The book presents over 8,000 illustrations of machine elements and assembled machinery for the engineer, designer, draftsman and manufacturer to select the machine parts or equipment most suitable for his special purpose. It also serves as an efficient guide for students and beginners.

Every conceivable type of machine element is clearly reproduced and identified. Where necessary an explanation of the method by which it accomplishes its particular function is given, and for additional convenience there is an exhaustive index to save time.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

355. REVOLVING DOORS

International Steel Company, manufacturers of revolving doors, recently issued a book which gives a complete story of its products and facilities. Included in the book are several pages of typical installations of revolving doors in buildings across the nation. The book, entitled "This Is International Steel," serves as a catalog for purchasers of International products. 44 pages, illus., 1/51.

356. PROPELLER FAN STANDARDS

A reliable guide for buying, selling and specifying products is available to equipment dealers through the use of Commercial Standards published by the U. S. Department of Commerce. A Commercial Standard is a description of the characteristics of the article and covers the accepted methods of testing and rating. A Standard may also specify the installation deemed necessary for satisfactory service to the consumer. The development of these standards is not the result of orders from any governmental agency, but is due to the direct voluntary efforts and arrangements made by qualified representatives of the trade or industry involved. The Commodity Standards Division of the Department of Commerce, in cooperation with the U. S. Bureau of Standards, serves as an impartial fact-finding agency; establishing a clear basis for confidence and understanding between buyer and seller. Through voluntary guarantees made

by manufacturers subscribing to the Commercial Standard, the public is afforded a fair basis for judging competitive brands. Copies may be obtained by writing directly to the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. The cost is 5c each.

357. FUSION WELDING OF NICKEL

A new booklet on the fusion welding of nickel and the high nickel alloys has just been published by The International Nickel Company, Inc. It includes more than 30 tables and almost 50 drawings and photographic illustrations. A complete technical treatise on the subject, it covers various forms of electric arc welding as well as gas welding. There are over 20 chapters and sections covering, in addition to detailed welding instructions, such information of importance to production and welding engineers as the boiler code of the American Society of Mechanical Engineers, pickling, testing and inspection safety methods and associated topics. T-2, 44 pages illus., 10/51.

358. CEILING OUTLETS FOR AIR DISTRIBUTION

A new edition of the Venturi-Flo Air Distribution Catalog, F-4085-1, is now available. Announces the new Venturi-Flo-Lite representing the combination of engineered air distribution and interior lighting. Gives comprehensive engineering information. AIA-30E, 18 pages, 11/51.

359. NON SPARKING STATIC DISCHARGING TERRAFLOOR

A comprehensive specification guide for the NonSparking—Static Discharging—conductive Terra Floor is covered by the LeRoy Olson Company in their booklet. The booklet covers complete information covering electrical resistance specified by the U. S. Public Health Service, Hospital Facilities Division. Also are detail specs covering installations over all types of slabs and radiant heat. A further detail is the drawings included for assistance in specifying anitary bases. A.I.A. 23-D, 14 pages, illus., 10/51.

360. THRESHOLDS

Architects and designers concerned with threshold applications will find detailed information in this new file-size portfolio containing over 20 individual plates. Full size cross-sections, dimensions, typical installation drawings and specifications furnish quick information on Abrasve Cast, Extruded and Rolled Steel Thresholds. Various tread surfaces of Ferrogrit, Alumogrit, Bronzogrit and Nicklogrit are detailed in cast metal, and the aluminum and brass extruded are shown in the various corrugated, fluted and other types. A.I.A. 14-B, 2/18/52.

361. INVISIBLE WARMTH

Six types of National Aero Convectors that produce a method of concealed heating for homes, stores, offices, schools and institutions are described and illustrated in Catalog No. 594 now being distributed by The National Radiator Co. The booklet states that convected and radiant heat are obtained from convector installation. Convected heat is created, says the literature, by the cast iron convector warming and distributing large volumes of moderately warmed air. Radiant heat is said to be created through the convector warming the steel National Art Enclosure which covers the convector. "Invisible Warmth," as the new literature is titled, shows both frequent and infrequent piping connections, roughing-in dimensions, and convector ratings for either steam or hot water use which have been determined in conformance with Commercial Standard CS 140-47. A.I.A. 30-C-14, 28 page illus., 2/21/52.

362. MOVABLE METAL WALLS

"Mobilized Interiors—the efficient, economical way to solve your space problems" is the theme of Mills new catalog. This book was designed specifically as a working tool for architects, engineers, contractors and building professionals—the men who deal directly with the problem of changing space requirements in offices, factories, schools, hospitals and laboratories commercial, industrial and institutional buildings of every type. Besides numerous installation and construction photographs and detailed construction drawings, the book contains complete specifications data. Cat. 52, 48 pages illus., 1/52.

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LUMBER GRADES

(From Page 7)

assistant general superintendent, who was raised with a two-by-four in one hand and a grading rule book in the other. Eight men serve as district supervisors at eight Bureau offices scattered up and down the Pacific Coast and into the principal consuming areas of the east. Thirty men, with a combined experience in lumber of more than 1,000 years, make up the supervisory staff. Still retaining the flavor of Scotland Yard is the next and most numerous bracket, the 150 inspectors who handle much of the on-the-spot work of the Bureau.

Brown picks these men from the cream of the crop. They have to be not only good, but superior.

Here's an idea of why the Bureau is so effective and well thought of generally by lumbermen. During 1951 the 30-man supervisory staff made 8,467 calls and visits to mills. One purpose of the calls was to educate mill employes. This is done through close personal supervision and intensive training. A training program for mill graders occupies some of their time. Graders are approved to use WCBLGI grade stamps only after they have checked out three different and consecutive times by a Bureau staff member and only after they have proven that they can maintain a grading efficiency of at least 95% which is the allowable tolerance of human error permitted.

The lumber industry has taken every possible precaution to insure maximum service to the purchaser of West Coast species. Bureau offices are maintained at Seattle, Eugene, Medford, Los Angeles, Washington and New York, in addition to Portland headquarters. Resident supervisors are maintained the year around at Eureka, California; Kansas City, Missouri; San Francisco; and Chicago.

While the Bureau is the final and sole authority in interpretation of West Coast lumber grading rules, Bureau officials are constantly working to improve and perfect the rules. Bureau officials work with the U. S. Forest Products Laboratory at Madison in a constant series of tests and samplings to maintain stress and structural grade standards. They consult with architects and engineers when compiling grading rules.

What many people maybe don't know about modern-day grading rules is that they are based on intended use of the particular piece of lumber. There are still appearance grades in the finish and clear items, but now, structural and stress grades are developed on the basis of what they will do in a particular job. Today an engineer and designer or architect knows exactly how a given grade of Douglas fir or West Coast hemlock will perform, for impartial laboratories have made exhaustive tests. Thanks to these tests, lumber today is an engineering material.

The GI's obstacle-course tune-ups are kid's play compared to the mental gymnastics which Superintendent Brown puts his supervisors through at regular intervals. His inspectors and supervisors are hand-picked from industry, but they must submit to rigid training, frequent examinations, actual grading tests in front of their fellow supervisors. A 1,000 years of critical knowledge watches their every move in these nerve-shattering tests.

Probably the answer to this rapid increase in membership in the famed West Coast Bureau is that the grade-mark has become the Lumber Hall-Mark of integrity.

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ARCHITECT NAMED TO HEAD RED CROSS DRIVE

William E. Hartman, partner in the firm of Skidmore, Owings & Merrill, has been appointed to head up solicitations within the architects groups of the 1952 Red Cross Fund campaign's business division, for Chicago.

The campaign which opened March 1, is being conducted among some 1000 architectural employees.

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performence or Performence plus Labor and Meteriel Bond(s), $10 per $1000 on contract price. Labor & Materiel Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.
Glazed Structural Units—
Clear Glazed—
2 x 6 x 12 Furring ..... $1.60 per sq. ft.
4 x 6 x 12 Partition ..... 1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition ..... 2.25 per sq. ft.
For colored glaze add ..... .30 per sq. ft.
Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Cartage—Approx. $10.00 per M.
Paving—$75.00.
Building Tile—
8x5½x12-inches, per M $139.50
6x5½x12-inches, per M 105.00
4x5½x12-inches, per M 84.00
Hollow Tile—
12x12x2-inches, per M $146.75
12x12x3-inches, per M 156.85
12x12x4-inches, per M 177.10
12x12x6-inches, per M 235.30
F.O.B. Plant

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll $5.30
2 ply per 1000 ft. roll 7.80
3 ply per 1000 ft roll 9.70
Brownskin, Standard 500 ft. roll 6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll 7.00
Sheathing Papers—
Asphalt sheathing, 15-lb. roll $2.00
30-lb. roll 2.79
Dampcourse, 216-ft. roll 2.95
Blue Plasterboard, 60-lb. roll 5.10
Felt Papers—
Deadening felt, ¾-lb., 50-ft. roll $3.23
Deadening felt, 1-lb. 3.79
Asphalt roofing, 15-lbs. 2.00
Asphalt roofing, 30-lbs. 2.79
Roofing Papers—
Asphalt Rfg., 15 lb. $2.09
Standard Grade, 108-ft. roll, Light 1.87
Smooth Surface, Medium 2.18
Heavy 2.56
M. S. Extra Heavy 2.96

BUILDING HARDWARE—

Sash cord com. No. 7 ..... $2.65 per 100 ft.
Sash cord com. No. 8 ..... 3.80 per 100 ft.
Sash cord spot No. 7 ..... 3.65 per 100 ft.
Sash cord spot No. 8 ..... 3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.
1-Ton lots, per 100 lbs. $3.75
Less than 1-ton lots, per 100 lbs. $4.75
Nails, per keg, base $11.80
8-in. spikes 11.80
Rim Knob lock sets 1.80
Butts, dull brass plated on steel, 3½x3½ ..... .76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—
Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
Per Sack, small quantity (paper) $1.05
Carload lots, in bulk per bbl 2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Medusa White: 1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards* $12.00
10 to 100* yards 11.00
100 to 500 yards 10.50
Over 500 yards 10.30
* Delivered to site.

CONCRETE BLOCKS—

	Heydite	Basalt
4x8x16-inches each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.36
12x8x16-inches, each	.34	.39
12x8x24-inches, each	—	.60

Haydite Aggregates—
¾-inch to ⅜-inch, per cu. yd $7.25
⅜-inch to ⅛-inch, per cu. yd 7.25
No. 6 to 0-inch, per cu. yd 7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; cley or shale, $1.50 per yard.
Trucks, $30 to $45 per dey.
Above figuras are an everege without water. Steam shovel work in large quentities, less; hard meteriel, such as rock, will run considerebly more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standerd guage, sq. yd $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mestic Weer Coet—according to type—20c to 35c.
Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	33/32x2¼	½x2	⅜x2	⅝x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prima	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
¾ x 2¼	390.00	381.00
¾ x 2¾	375.00	355.00
¾ x 3¼	395.00	375.00
¾ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

33/32 x 2¼ First Grade	$390.00
33/32 x 2¼ 2nd Grade	365.00
33/32 x 2¼ 2nd & Btr. Grade	375.00
33/32 x 2¼ 3rd Grade	240.00
33/32 x 3¼ 3rd & Btr. Jtd. EM	380.00
33/32 x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Glass	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Glass	.64 per □ ft.
⅛ in. Obscure Glass	.40 per □ ft.
3/32 in. Obscure Glass	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glazing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cottan Insulation—Full-thickness (3¾") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Delvd.
V.G.-D.F. 8 & 8tr. 1 x 4 T & G Flooring ...	$225.00
"C" and better—all ...	225.00
"D" and better—all ...	225.00
Rwd. Rustic—"A" grade, medium dry ... 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-S1S $170.00
½-inch, 4.0x8.0-S1S 250.00
¾-inch, per M sq. ft. 315.00
Plyscord ..... 1½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square

Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).

Double hung box window frames, average with trim, $12.50 end up, each.

Complete door unit, $15 to $25.

Screen doors, $8.00 to $12.00 each.

Patent screen windows, $1.25 a sq. ft.

Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.

Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.

Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.

For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Three-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (8asis 7¾ lbs. per gal.)	Raw	Boiled
Light iron drums ... per gal.	$2.28	$2.34
5-gallon cans ... per gal.	2.40	2.46
1-gallon cans ... each	2.52	2.58
Quart cans ... each	.71	.72
Pint cans ... each	.38	.39
½-pint cans ... each	.24	.24

Turpentine (8asis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ... per gal.	$1.65
5-gallon cans ... per gal.	1.76
1-gallon cans ... each	1.88
Quart cans ... each	.54
Pint cans ... each	.31
½-pint cans ... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (Soft - Paste)

Net Weight Packages	List Price per 100 lbs.	Price per pkgs.	Price to Painters per 100 lbs.	Painters Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead —Red Lead in Oil

Price to Painters—Price Per 100 Pounds Products	100 lbs.	50 lbs.	25 lbs.
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Seilings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLiLme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Sectanglar" tar and gravel, 4 ply—$11.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per squore .. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resewn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resewn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resewn Cedar Shakes, 10" Exposura 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standerd, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M $240.00
Standard, 8-in. per M 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvenized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless, (unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft. .. 1.85

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton. in place.

¼-in. Rd. (Less than 1 ton)	$8.40
⅜-in. Rd. (Less than 1 ton)	7.30
½-in. Rd. (Less than 1 ton)	7.00
⅝-in. Rd. (Less than 1 ton)	6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton)	6.65
1-in & up (Less than 1 ton)	6.60

1 ton to 5 tons, deduct 25c.

STORE FRONTS (None available).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅜" ..... $ .18 - $ .35 sq. yd. Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 per so. ft
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (c)
Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(23)
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th Sts., UN -17400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259

AIR CONDITIONING (b)
Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58, 4851 S. Alameda St.
San Francisco, 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (a)
Ceramic Veneer
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
(Dept. AE-450)
Room 601, Franklin Building, Oakland 12, California
P. O. Box 186, East Pasadena Station, Pasedena 8, California
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Merket Street, SU 1-6747
Los Angeles 4: DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834

BANKS-FINANCING (1b)
CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery St's., EX 2-7700

BATHROOM FIXTURES (1c)
Metal
THE CAMBRIDGE TILE MFG. CO. *(23)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(23)

BRASS PRODUCTS (1a)
GREENBERG'S, M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BRICKWORK (1)
Face Brick
GLADDING, McBEAN & CO.*(e)
San Francisco: Herrison at 9th Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Offices at Portland, Seattle, Spokane
KRAFTILE
Niles, California, Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241
REMILLARD-DANDINI CO.
San Francisco: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (1b)
GREENBERG'S M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BUILDING PAPER & FELTS (2)
ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Bouleverd
SISALKRAFT COMPANY
San Francisco: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (3)
THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (c)
PACIFIC PORTLAND CEMENT
San Francisco: 417 Montgomery St., GA 1-4100

CONCRETE AGGREGATES (4)
Aggregates
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th & A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., Ph. 8-8643
Fresno: 2150 G. St., 280 Thorne Ave., Ph. 3-5166
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond, Cal.: 26th & B Sts.—Yd. 2, RI 4307

DOORS (4a)
Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St. AD 1-1108
Distributors:
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
T. M. COBB CO.
Los Angeles: & San Pedro.
SOUTHWEST SASH & DOOR
Phoenix, Arizona
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN CO.
(See Hollywood Door listing above)

FIRE ESCAPES (5)
MICHEL & PFEFFER IRON WORKS, INC.
South Linden and Tanforan Aves.
South San Francisco: JU 4-8362
SOULE STEEL
San Francisco: 1750 Army St., VA 4-4141
Los Angeles, Calif.—LA 0911
Portland, Ore.—BE 5155
Seattle, Wash.—SE 3010

FIREPLACES (5a)
Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St. PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (6)
Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(a)
KRAFTILE *(23)
Floor Tile (Ceremic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(23)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
470 Alabama St., San Francisco, MA. 1-7766
Los Angeles, 923 E. 3rd, TRinity 8282
Seattle, 3440 E. Marginal Way
Diversified (Magnesite, asphalt tile, composition, etc.)
LeROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LeROY OLSON CO.

GLASS (7)
W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Oregon

HEATING (8)
HENDERSON FURNACE & MFG. CO.
Sebastopol, Calif.
S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 No. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
Electric Heaters
ELECTROMODE CORP.
Rochester, N. Y.
San Francisco: 1355 Market St., KL 2-2311
Northern California Distributors
GENERAL ELECTRIC SUPPLY CORP.
San Francisco: 1201 Bryant St., UN 3-4000
Emeryville: 5400 Hollis St., OL 3-4433
Sacramento: 1131 S St., GI 3-9001
Fresno: 1234 O St., Fresno 4-4746
INCANDESCENT SUPPLY COMPANY
Redding: 2146 Pine St., Redding 200
THOMAS B. HUNTER (Designer)
San Francisco: 41 Sutter St., GA 1-1164
UTILITY APPLIANCE CORP. *(b)

INSULATION AND WALLBOARD (9)
LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
SISALKRAFT COMPANY *(2)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Sacramento: 1224 I Street, 2-8993
Stockton: 1120 E. Weber Ave., 4-1863
Fresno: 1837 Merced Street, 3-3277
San Jose: 201 So. Market St., BA 4359-J

IRON—Ornamental (10)
MICHEL & PFEFFER IRON WORKS, INC. * (5)

LANDSCAPE (11a)
Landscape Contractors
HENRY C. SOTO CORPN.
Los Angeles. 13000 S. Avelon Blvd. ME 4-6617

LIGHTING FIXTURES (11)
SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (12)
HOGAN LUMBER COMPANY *(6)
LUMBER MANUFACTURING CO. *(9)
Shingles

MARBLE (13)
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (14)
FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100
SOULE STEEL *(5)

MILLWORK (15)
LUMBER MANUFACTURING COMPANY *(9)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles: 6820 McKinley Ave., TH 4196

PAINTING (16)
Paint
W. P. FULLER COMPANY *(7)

PLASTER (17)

Interiors—Metal Lath & Trim

FORDERER CORNICE WORKS *(14)

Exteriors

PACIFIC PORTLAND CEMENT COMPANY*(4)

PLASTIC CEMENT (f)

PACIFIC PORTLAND CEMENT CO.
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (18)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio

THE SCOTT COMPANY *(8)

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

SEWER PIPE (19)

GLADDING, McBEAN & CO. *(1)

PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

SHEET METAL (20)

Windows

DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890

MICHEL & PFEFFER IRON WORKS, INC. *(5)

SOULE STEEL COMPANY *(5)

Fire Doors

DETROIT STEEL PRODUCTS COMPANY

Skylights

DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (21)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle: 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

KRAFTILE COMPANY *(1)

SAN JOSE STEEL COMPANY
San Jose: 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (22)

REPUBLIC STEEL CORP. *(21)
HERRICK IORN WORKS *(21)
SAN JOSE STEEL CO. *(21)
COLUMBIA STEEL CO. *(21)

TILE (23)

THE CAMBRIDGE TILE MFG. CO. *(23)
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800

GLADDING, McBEAN & CO. *(a)

KRAFTILE
Niles, California: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

TIMBER—REINFORCING (b)

Trusses

WEYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber

J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (24)

THE CAMBRIDGE TILE MFG. CO. *(23)
GLADDING, McBEAN & CO. *(1)
KRAFTILE COMPANY *(1)

WINDOWS STEEL (25)

DETROIT STEEL PRODUCTS CO. *(20)
MICHEL & PFEFFER IRON WORKS, INC.*(5
SOULE STEEL COMPANY *(5)

GENERAL CONTRACTORS (26)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS) (27)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and thair union; or as recognized and determinad by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bar-nardino	San Diago	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53					
BRICKLAYERS	3.25	3.25	3.15	2.85	3.25	3.00	3.00	3.25	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	1.75	1.75	1.75	1.75	1.75
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.20	2.20	2.20	2.20	2.20
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.28	2.28	2.28	2.28	2.28
ELECTRICIANS	2.75	2.60	2.60	2.75	2.50	2.50	2.625	2.60	2.50	2.50	2.50	2.50	2.50
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.00	2.00	2.00	2.00	1.96
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.255	2.255	2.255	2.255	2.255
REINF. RODMEN	2.375	2.325	2.375	2.375	2.375	2.375	2.375	2.375	2.28	2.28	2.28	2.28	2.28
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.30	2.30	2.2375	2.30	2.30
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.50	2.50	2.50	2.50	2.50
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.40	2.40	2.20	2.40	2.40
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.33	2.33	2.33	2.33	2.33
PLASTERERS	3.00	3.15*	3.15	2.75	3.00	3.00	3.125	3.00*	2.50	2.75	2.50	2.50	2.50
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4325	2.875	2.875	2.50	2.50	2.20	2.50	2.25

.* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretarias of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

NEWSPAPER PLANT

(From Page 22)

One feature which Architect Maloney has followed throughout the building is unique in newspaper offices. The private office of each department head is so constructed that this executive has a clear view of his entire department through properly installed glass windows.

Asphalt tile flooring has been installed in most of the offices, but wooden block flooring has been installed in the mechanical departments. Wooden block flooring is easier on the feet where men are standing all day long.

The new building, together with new 64-page Goss press, cost $1,000,000.

So well designed is this structure that no noises from press room and composing room reach the quiet of the news room or the business offices. This is an accomplishment when so much noise-making equipment is housed in a relatively small structure right up next to offices where elimination of noise is an aid to fatigue reduction as well as to error reduction in copy.

Howard S. Wright, of Seattle, was general contractor on the W. W. Robertson Building. Assisting Architect James W. Maloney was Howard Jackson, architect's representative.

DIRECTIVE FORBIDS CONTRACTORS TO HIRE THROUGH EMPLOYMENT AGENCIES

A directive has been issued by the Army Corps of Engineers forbidding contractors on projects financed by the U. S. Government funds to hire workers through employment agencies "where a fee is charged to the employees."

This action is the result of a vigorous campaign waged by the Construction Men's Association, a mutual welfare organization of more than 10,000 construction specialists and technicians who make a career of working in foreign countries for American construction firms.

More than 183,000 men are currently working on 100 projects around the world, many of which are defense bases.

The directive was issued by Charles R. Brodner, acting assistant District Engineer, Atlantic District, Corps of Engineers, New York City and includes a statement on "personnel recruitment policy on fixed fee contracts under the jurisdiction of the Corps of Engineers.

"In the future, it shall be a policy of the fixed fee contractors to avoid the use of private employment agencies where a fee is charged to the employees. The use of any such private agency is expressly prohibited until all other sources of supply have been exhausted and prior authority has been granted by the District Engineer for the use of the facilities of referenced agencies. It shall be the responsibility of each fixed fee contractor to strictly enforce the above stated policy."

PRODUCERS COUNCIL SOUTHERN CALIFORNIA

A joint meeting of the Southern California Chapters of the American Institute of Architects and The Producers Council, was recently held in Los Angeles with Charles Fry, president of the local A.I.A. Chapter and Harold Smith, president local Producers Council sharing presiding honors.

Speakers at the joint conference included Naughton Lane, National President of the Producers Council and Dr. Neil Jacoby, Dean of the School of Business Administration at UCLA.

Recent new members include Fred Smith of the Hunter Douglas Corp., and Donald Dunning of the Hollobilt Company.

AMERICAN SOCIETY FOR METALS

John F. Baisch, Research Engineer of the Boeing Airplane Company, presented a technical discussion on "Titanium" at a recent meeting of the Society, explaining that this new "wonder" metal is growing up the hard way but its strength-weight ratio and excellent corrosion resistance will give it a place with major structural materials.

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GET THE BEST, don't be satisfied with anything but the best. Window sash, Doors, Cabinets, etc. Town Talk Sash & Door Mill, 524 9th St., Sacramento.

BUILDERS! You can make more money; get information you need before it is published elsewhere; Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

PHOTOGRAPHY. For the best in construction photography, including exterior and interior, aerial, and progress views . . . you will find as many others have that it's the SKELTON STUDIOS, 875 O'Farrell St., San Francisco. Telephone PRospect 6-1841.

COLLECTIONS: For more than a generation —ready to serve you with competent legal staff, your interests protected at all times, efficient service, bonded agents everywhere, no collection no charge. California Material Dealers Service Co., 925 Hearst Bldg., San Francisco. Phone GArfield 1-5634. Ernest T. Langley, Mgr.

FLOOR COVERINGS for industriel, commercial, and residential construction. Complete lines, one of the oldest, best established organizations in the Sacramento Valley. LATTIN'S, INC., 1519 Alhambra Blvd., Sacramento.

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

BOHANAN ANNEX SCHOOL, San Lorenzo, Alameda County. San Lorenzo Elementary School District, owner. 2 kindergartens, multi-purpose & toilet rooms, kitchen, $447,931. ARCHITECT: Schmidts & Hardman, Berkeley. Frame & stucco construction, CMP granted. GENERAL CONTRACTOR: A. F. Stewart, Berkeley.

OFFICE & GARAGE BUILDING ADDITION, San Francisco. 320 Calif. Inc., owner, $192,000. ARCHITECT: Meyer & Evers, San Francisco. 4 story, 92 x 124, reinforced concrete construction. GENERAL CONTRACTOR: Cahill Bros., Inc., San Francisco.

RAY LYMAN WILBUR JUNIOR HIGH SCHOOL, Palo Alto, Santa Clara County. Palo Alto Unified School District, owner. Classrooms, administration, cafeteria, gymnasium, home-making, shops & toilet rooms, $1,101,138. ARCHITECT: Birge M. Clark & Walter Stromquist, Palo Alto. Frame & stucco construction. GENERAL CONTRACTOR: Howard J. White, Inc., Palo Alto.

PAROCHIAL SCHOOL, San Lorenzo, Alameda County. Roman Catholic Archbishop of San Francisco, owner. St. John The Baptist, 9 classrooms, administration & toilet rooms, $178,811. ARCHITECT: Vincent Buckley, San Francisco. Frame & stucco construction. GENERAL CONTRACTOR: Carlsen Construction Co., San Francisco.

NEW CHURCH, Oakdale, Stanislaus County. Roman Catholic Archbishop of San Francisco, owner. St. Mary's Parish, $123,272. ARCHITECT: Vincent Buckley, San Francisco. Frame & stucco construction, composition & tile roof. GENERAL CONTRACTOR: John H. Biaggi, Oakdale.

GEOLOGY BUILDING, Albuquerque, New Mexico. University of New Mexico, owner. 3 story and basement, $839,994. ARCHITECT: Meem, Zehner, Hollen & Associates, Santa Fe. Steel, concrete block and stucco construction. GENERAL CONTRACTOR: Lembke-Clough & King, Albuquerque.

LOS PALMAS JUNIOR HIGH SCHOOL, North Sacramento, Sacramento County. Grant Union High School, owner. 18 classrooms, multi-purpose, administration, home economics, science, art, library, study-hall, kitchen, physical education, shops, clinic & toilet rooms, $1,018,750. ARCHITECT: Leonard Starks, Sacramento. 1 story, 62,000 sq. ft., frame & stucco construction, reinforced concrete & some structural steel, CMP granted. GENERAL CONTRACTOR: Pacific Coast Builders, San Francisco.

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Others

Manufactured by
American Perlite Corporation
26th & B Sts.—Yard 2—Richmond
BEacon 5-1385

HELIX HIGH SCHOOL, Grossmont, San Diego County. Grossmont Union High School District, owner. Classroom wings, 1, 2 and 3, administration, cafeteria, 2 shower and locker rooms, music, speech, arts, industrial arts, $1,267,769. ARCHITECT: Kistner, Curtis and Wright, San Diego. 1 story, 65,000 sq. ft., stucco and type 3 construction, composition roof, slab and asphalt tile, hot water heat, excavation, metal lath, reinforcing steel, structural steel, steel sash, terrazzo. GENERAL CONTRACTOR: O. L. Carpenter, San Diego.

WEBER COLLEGE, Ogden, Utah. Utah State Building Board, owner. Four classroom buildings, $1,085,000. ARCHITECT: Lawrence D. Olpin, Ogden. Precast concrete and frame construction. GENERAL CONTRACTOR: Olsen Construction Co., Salt Lake City.

TAYLOR AVENUE ELEMENTARY SCHOOL, Sacramento, Sacramento County. Robla Elementary School District, owner. 8 classrooms, administration, kindergarten, multi-purpose, kitchen, toilet rooms, $292,846. ARCHITECT: George C. Sellon, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: Charles F. Unger, Sacramento.

MEDICAL BUILDING, Phoenix, Ariz. Park Central Development Co., owner. 2 story and basement, $1,500,000. ARCHITECT: Lescher & Mahoney, Phoenix. Masonry construction, composition roofing, concrete floor, asphalt tile, metal sash, acoustical work, metal lath, cast stone work, ceramic tile, passenger elevators. GENERAL CONTRACTOR: Park Central Development Co.

WAREHOUSE AND OFFICE BUILDING, Alhambra, Los Angeles County. Mario Richards, owner. 1 story, 23 rooms, $150,000. STRUCTURAL ENGINEER: Earl Bennetsen, Alhambra. Pre-cast reinforced concrete and concrete block construction. GENERAL CONTRACTOR: William J. Moran Co., Alhambra.

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MEDICAL BUILDING, Westchester District, Los Angeles County. Medical Arts Building of Westchester, Inc., owner. 1 story, $60,000. ARCHITECT: William Beckett, Los Angeles. 5400 sq. ft., reinforced brick and redwood siding exterior, built-up roofing, cement and asphalt tile flooring, acoustic-ceiling, steel sash, air conditioning, ceramic tile work. GENERAL CONTRACTOR: Wallace McDonald Co., Sherman Oaks.

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ACTIVITIES AND CHURCH BUILDING, Phoenix, Ariz. St. Mark's Parish, owner. $98,200. ARCHITECT: Lescher & Mahoney, Phoenix. Masonry construction. GENERAL CONTRACTOR: Homes & Son, Phoenix.

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MILK & ICE CREAM PROCESSING PLANT, San Francisco. Spreckels-Russell Dairy Co., owner. $360,111. 2 story, 110 x 235, type 3 construction, reinforced concrete and frame construction, CMP granted. GENERAL CONTRACTOR: Jacks & Irvine, San Francisco.

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GENERAL CONTRACTOR: William S. Porter, Phoenix.

ELEMENTARY SCHOOL ADDITION. Fall River Mills, Shasta County. Fall River Mills Joint Unified School District, owner. 3 classrooms, kitchen and toilet rooms, $92,488. ARCHITECT: Clayton Kantz, Redding. Frame construction. GENERAL CONTRACTOR: Pinnigar & Watkins, Klamath Falls.

HIGH SCHOOL ADDITION. Pleasanton, Alameda County. Amador Valley Joint Union High School District, owner. Homemaking unit and shop building, $149,250. ARCHITECT: Edward D. Cerruti, Oakland. Frame and stucco construction. GENERAL CONTRACTOR: D. Ross McClellan, Hayward.

CHURCH AND PAROCHIAL SCHOOL. San Leandro, Alameda County. Roman Catholic Archbishop of S. F., owner. 8 classrooms, administration, and toilet rooms, $375,955. ARCHITECT: Blanchard & Maher, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Carrico & Gautier, San Francisco.

ELEMENTARY SCHOOL, Kerman, Fresno County. Kerman Elementary School District, owner. 13 classrooms, administration, kindergarten, multi-use, kitchen and toilet rooms, $430,600. ARCHITECT: Horn & Mortland, Fresno. Wood frame and stucco construction, concrete foundations, concrete slab floors, composition roofing. GENERAL CONTRACTOR: Trewhitt, Shields & Fisher, Fresno.

NEW GRAMMAR SCHOOL. Placerville, El Dorado County. Placerville Union Elementary school district, owner. 6 classrooms, administration, kindergarten, toilet rooms, $230,944. ARCHITECT: Raymond R. Franceschi, H. Mullon, Sacramento. Frame and stucco construction. GENERAL CONTRACTOR: James P. Morton, Placerville.

NEW CHRISTENSEN LANE SCHOOL, Castro Valley, Alameda County. Castro Valley Elementary School District, owner. 16 classrooms, administration, multi-purpose, kitchen and toilet rooms, $664,000. ARCHITECT: John Warnecke, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Harry K. Jensen, Oakland.

PAROCHIAL SCHOOL AND CONVENT. Reseda, Los Angeles County. Roman Catholic Archbishop of Los Angeles, owner. 4 classroom and convent, $82,723. ARCHITECT: George Adams, Los Angeles. Masonry construction, composition roofing, oak cement and asphalt floors, wood and steel sash, gas heating ceramic tile floors in baths and toilets. GENERAL CONTRACTOR: Encino Construction Co., Encino.

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NAVY WHERRY ACT HOUSING PROJECT. San Diego, San Diego County. Eleventh Naval District, owner. 895 units, $6,754,445. ARCHITECT: Adrian Wilson, Paderwiski, Mitchell and Dean Assoc., San Diego. Frame & stucco construction, composition roofing, double hung wood sash, hardwood and linoleum floors, tile drainboards, gas wall furnaces, site improvements, water distribution system. GENERAL CONTRACTOR: Western Area Housing Co., San Diego.

CHURCH BUILDING, Hermosa Beach, Los Angeles County. St. Cross Episcopal Church, owner. $170,000. ARCHITECT: Paul O. Davis, Los Angeles. Reinforced brick construction, tile and composition roofing, structural steel work, cement slab floor, metal sash, toilets. GENERAL CONTRACTOR: T-S Construction Engineers Co., Los Angeles.

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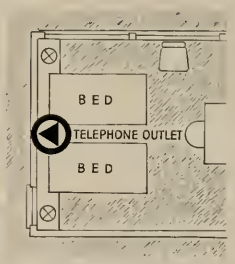

All home owners may want to add extra telephone extensions sometime in the future—in the living room, bedroom, kitchen—wherever they're needed. That's why it's so important to include built-in conduit and outlets in your plans. The cost is small, but the convenience is great.

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The Pacific Telephone and Telegraph Company

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

BOHANAN ANNEX SCHOOL, San Lorenzo, Alameda County. San Lorenzo Elementary School District, owner. 2 kindergartens, multi-purpose & toilet rooms, kitchen, $447,-931. ARCHITECT: Schmidts & Hardman, Berkeley. Frame & stucco construction, CMP granted. GENERAL CONTRACTOR: A. F. Stewart, Berkeley.

OFFICE & GARAGE BUILDING ADDITION, San Francisco. 320 Calif. Inc., owner, $192,-000. ARCHITECT: Meyer & Evers, San Francisco. 4 story, 92 x 124, reinforced concrete construction. GENERAL CONTRACTOR: Cahill Bros., Inc., San Francisco.

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WEBER COLLEGE, Ogden, Utah. Utah State Building Board, owner. Four classroom buildings, $1,085,000. ARCHITECT: Lawrence D. Olpin, Ogden. Precast concrete and frame construction. GENERAL CONTRACTOR: Olson Construction Co., Salt Lake City.

TAYLOR AVENUE ELEMENTARY SCHOOL, Sacramento, Sacramento County. Robla Elementary School District, owner. 8 classrooms, administration, kindergarten, multi-purpose, kitchen, toilet rooms, $292,846. ARCHITECT: George C. Sellon, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: Charles F. Unger, Sacramento.

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WAREHOUSE AND OFFICE BUILDING, Alhambra, Los Angeles County. Mario Richards, owner. 1 story, 23 rooms, $150,000. STRUCTURAL ENGINEER: Earl Bennetsen, Alhambra. Pre-cast reinforced concrete and concrete block construction. GENERAL CONTRACTOR: William J. Moran Co., Alhambra.

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CHURCH BUILDING, Hermosa Beach, Los Angeles County. St. Cross Episcopal Church, owner. $170,000. ARCHITECT: Paul O. Davis, Los Angeles. Reinforced brick construction, tile and composition roofing, structural steel work, cement slab floor, metal sash, toilets. GENERAL CONTRACTOR: T-S Construction Engineers Co., Los Angeles.

SLEEPERS

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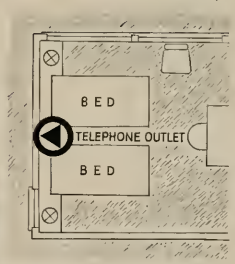

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IN THE NEWS

AIR FORCE BASE EXPAND

Congress has allocated funds for expansion of the Travis Air Force Base near Fairfield to accommodate another Reconnaissance Wing.

According to U. S. Air Force officials in Washington, D. C., some $18,800,000 will be expended for this purpose in the immediate future.

ARCHITECT SELECTED FOR HEALTH CENTER

The Board of Supervisors for the county of Marin have commissioned architect R. B. Hammond of San Rafael to draft plans and specifications for the construction of a new County Health Center Building.

The new building will be of 1-story, frame and stucco construction, and will represent an expenditure of some $100,000.

ELECTRONIC LABORATORY

Architect Eric Mendelshon of San Francisco is the architect for a new Electronic Plant being constructed in Palo Alto for Varian Associates.

The project, costing $500,000, will include a research laboratory, administration building, shops and a cafeteria.

NEW BUILDING SERVICE

The Ford J. Twaits Co., construction engineers and general contractors of Los Angeles, has formed a new development division which will be in charge of Mort Ballagh.

The new activity will provide clients with a complete building service that includes construction, site selection, interim financing, and sale of the completed structure, according to Ford J. Twaits and Carl H. Willenberg, firm partners.

OPENS ARCHITECTURAL OFFICE ON WEST COAST

Isadore Rosenfield, architect and hospital consultant of New York City, has opened offices for the practice of architecture in association with Rex Whitaker Allen, architect, at San Francisco.

Offices for the new architectural association have been established at 566 Commercial Street.

SCHOOL BONDS VOTED

Voters of the Jackson Union High School District have approved a bond issue of $189,000 for construction of an addition to the Jackson High School.

The addition will include science, home economics, shop, drawing room, locker rooms, and toilet rooms.

NEW DOWNEY AREA SCHOOL

Architects Allison & Rible of Los Angeles are completing details for the construction of the new $1,000,000 North Junior High School in Downey which will be ready for occupancy in September of next year.

The school will be of steel and wood frame construcion and will comprise 15 buildings to accommodate 900 to 1,000 children.

HAWTHORNE ADDS TO HIGH SCHOOL

The Mineral County High School Board of Education, Hawthorne, Nevada, is completing plans with architect Russell Mills of Reno, for the construction of a 6-class room, administration, and shop addition to the local High School.

Of reinforced concrete and frame construction the project will cost $200,000.

ARCHITECT CHOSEN FOR SCHOOL WORK

Charles E. Butner, architect of Salinas, has been commissioned by the Monterey Unified School District, Monterey, California, to design a new elementary school for the new Wherry Housing Project now under construction near Monterey.

The new school buildings will comprise 10 classrooms, administration offices, multipurpose rooms, kitchen, and toilet rooms, and will be built of frame and stucco construction.

NEW PUTTY-LESS SKYLIGHTS

A new type of extruded aluminum skylight has been developed by the O'Keeffe Company of San Francisco, representing no putty seal and a minimum of maintenance.

The new skylight is simple to install at

low cost; lengths of heat absorbing, lightweight glass may be obtained in 12 ft. lengths if desired; bars are cut and bolt holes punched ready for installation. Strength tested at University of California Materials Testing Laboratory, and approved by Uniform Building Code Technical Committee.

ARMY HOUSING PROJECT

A plan has been announced for the construction of 500 housing units on the Presidio of San Francisco under terms and provisions of the Army Wherry Housing Act.

The project consists of 250 2-bedroom, multiple type houses and 250 3-bedroom multiple type houses, all of frame and stucco construction. Cost is estimated at $4,488,900.

ARCHITECT CHOSEN FOR SCHOOL

The Sacramento Unified School District has selected architect Gordon Stafford of Sacramento to design an addition to the Mark Twain Elementary School.

The addition will consist of 4 classrooms.

WILL REMODEL RENO HOSPITAL

The Board of Regents of the University of Nevada have authorized architect Russell Mills of Reno, Nevada, to draft plans for remodel of Lincoln Hall and the Hospital Building on the University's campus in Reno.

The work will include a new heating plant and other interior and exterior alterations.

NEW DRUM PLANT FOR PITTSBURG

The Continental Can Company of Chicago, Ill., has announced the start of construction on a new $2,000,000 Fibre Shipping Drum Manufacturing Plant in Pittsburg, Calif.

Of one-story construction, the building will contain some 300,000 sq. ft. of space, while a two-story steel frame building section containing office facilities will also be a part of the project.

NEW AIRCRAFT PLANT HAYWARD

The Transocean Air Lines, with general administrative offices at the Oakland Municipal Airport, have leased a substantial plot of ground near the Hayward Municipal Airport in Alameda County, for construction of a new aircraft plant.

LOW INCOME HOUSING PROJECT FOR MODESTO

The Housing Authority of Stanislaus county is sponsoring the construction of 150-low income housing units at Modesto.

Of concrete block and frame construction, with cement tile roofs, the project will cost $1,250,000.

Donald Powers Smith of San Francisco is the architect.

JUVENILE HALL ADDITION

The Board of Supervisors of Tulare County recently authorized the construction of a $120,000 addition to the Juvenile Hall building in Visalia.

A kitchen, dining room facilities, and remodel of security quarters is included in the plans being drafted by architect James P. Lockett.

LOW INCOME HOUSING

The Housing Authority of Stanislaus County is constructing a 150-unit low income housing project in Modesto, consisting of duplex residences; concrete block and frame construction with cement tile roofs.

Donald Powers Smith of San Francisco is the architect. Cost of the project is estimated at $1,250,000.

SCHOOL BONDS ARE VOTED

Voters of the Santa Clara Elementary School District in Santa Clara, recently approved a bond issue of $890,000 for construction of an addition to the Santa Clara Elementary School.

NAMED CONCRETE PRESIDENT

A. T. Goldbeck, engineering director, National Crushed Stone Association, Washington, D. C., was elected president of the American Concrete Institute at the group's 48th annual convention, recently held in Cincinnati, Ohio. He succeeds Harry F. Thomson of Chicago, Illinois.

Other officers elected included J. W. Kelly, Civil Engineering Department, University of California, Berkeley, California, and Bailey Tremper, Materials and Research Engineer, Washington State Highway Department, Olympia, Washington, Directors for a three year term.

NEW BUILDING FOR MEDICAL COLLEGE

A new library-administration building is being constructed on the Loma Linda campus of the College of Medical Evangelists,

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Los Angeles, at a cost of $300,000.

Designed by Architect Earl Heitschmidt the building will house 60,000 volumes, a museum, five tiers of stacks and reading rooms, and an administration section of offices and council room.

NEW MUSIC BUILDING FOR UC AT BERKELEY

The Board of Regents of the University of California have authorized preliminary plans for the construction of a $1,600,000 Music Building on the Berkeley compus.

REMODEL GOLDEN HOTEL IN RENO

Architect Edward H. Fickett of Los Angeles has been commissioned to redesign the lobby, casino, lounges, restrooms, and a new snack bar for the Golden Hotel in Reno, Nevada.

JEWELRY STORE FOR PASADENA

Architects Pereira & Luckman have designed a new jewelry store for B. D. Howes & Son, Pasadena.

The new building will cost an estimated $200,000 and will represent one of the latest to be built in Pasadena's rapidly developing shopping area.

LOW RENTAL HOUSING PROJECT AT SALINAS

The Housing Authority of Monterey county has commissioned architect Charles E. Butner of Salinas, to draft plans and specifications for a 100 low rental housing unit project to be constructed in Salinas.

The buildings will be one and two story construction of frame and stucco construction.

FOR VALLEO

Elvin Van Ness and Charles A. Russell of Oakland are constructing 186 new homes in Vallejo (California) at an estimated cost of $1,674,000. The residences are to be of frame and stucco construction and are designed for rental purposes.

ELEMENTARY SCHOOL

Architect H. L. Gogerty of Los Angeles has completed preliminary drawings for the construction of a 10-classroom central Elementary School in Corcoran for the Corcoran Elementary School District.

The building is to be of reinforced concrete and frame construction.

SWIMMING POOL

The City of Sanger, Fresno county, will construct a $100,000 municipal swimming pool as the result of approval of voters to a recent bond issue.

Architect Walter Wagner of Fresno has been commissioned to design the reinforced concrete structure.

MILITARY HOUSING

FHA has insured mortgages totaling well over $200-million on an estimated 80 projects scattered through 25 states which will provide homes for 25,000 families of military personnel.

GI HOME MARKET STILL GREAT

More than 13-million veterans of World War II have not used their GI loan privileges under the GI Bill of Rights.

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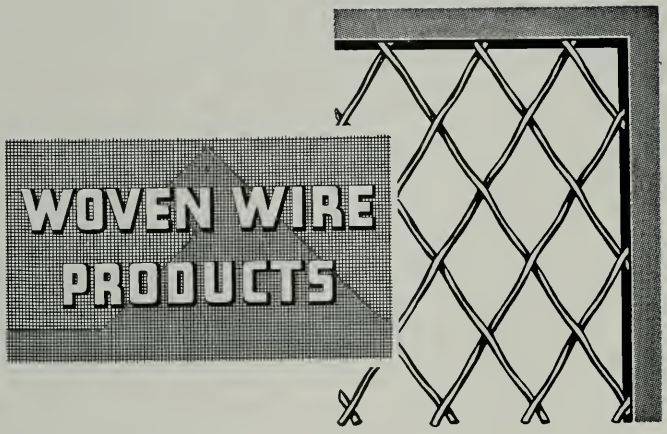
ARCHITECT AND ENGINEER

CHURCHES CAN BE DIFFERENT . . . Cedar Hills Community Congregational Church

WARREN WEBER, A.I.A. Architect, Portland, Oregon

APRIL 1952



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• ARCHITECT AND ENGINEER

Vol. 189 No. 1

ARCHITECTS' REPORTS—Published Daily

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Book Reviews

★

COVER PICTURE

CHURCHES CAN BE DIFFERENT

Ingenious western architects have created a dramatic, modern Gothic style in church architecture that is commending world-wide attention.

Partially made possible by modern construction materials, today's new style Churches are featured in this issue.

Architect Warren Weber, A.I.A., of Portland, Ore., has designed this unique Cedar Hills Community Congregational Church for his city. For complete story see Page 12.

Cover photo by Carl E. Vermilya.

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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EDITORIAL NOTES

ECONOMY BEGINS AT HOME

Progressive minded citizens have always sought ways and means of building their communities, cities and towns.

If a new postoffice was needed, if a larger courthouse was necessary, if a park was required the Chamber of Commerce and Planning Commission were found out in front working for the improvement desired.

As communities developed, many public projects were built solely from local funds, but in the years before Federal Budgets reached monumental proportions most communities also eagerly sought federal projects.

But the Tax Burden which all share today has had a sobering effect on local spenders. Citizens of communities everywhere are coming to realize that it is their money that Washington is spending. It is their own children and grandchildren who will carry the future public debt load.

Thus, it is logical that a nationwide movement has developed to minimize, during the defense emergency at least, the spending of Federal Funds for local projects. A sound policy of Public Economy begins at home.

* * *

The federal government has taken away from the general contracting industry the ability to give to public bodies and private investors in construction the reasonable assurance that projects can be completed on normal schedule and at estimated costs.—Glen W. Maxon, Pres. The Associated General Contractors of America.

* * *

WITHOUT BENEFIT OF ARCHITECT

One of the larger West Coast metropolitan daily newspapers recently published a special Sunday feature article, profusely illustrated and supported by a number of "allied" industry advertisements, on the advantages of remodeling an old house, rather than building a new one.

The material was well considered and most certainly presented in an interesting manner.

But, the element of this presentation to the general public that struck an immediate sour note was the glaring, large, black type headline stretching completely across the full page which placed emphasis on the remodeling of a home "without an architect."

As a magazine that has consistently advocated and devoted considerable time, effort and space to the many advantages of architectural and engineering services, ARCHITECT & ENGINEER can not agree with, or pass without this comment, the newspaper's position that architectural services are not needed in the instances which are illustrated in the feature article.

The long hours of advance study and years of experience and practice in the field of architecture, new building materials, and construction methods, makes the services of any qualified Architect valuable to any home owner whether it be in the design of a new residence, or the remodel of an old one.

Architects CAN make any home more livable.

* * *

"Whether the men of the United Nations are engaged in combat or are standing on a truce line makes no fundamental change in the need for building strength for the defense of freedom throughout the world."—Charles E. Wilson, Director of Defense Mobilization.

* * *

HOUSING IN EUROPE

A special report disclosing results of a first-hand survey made last summer on "Housing in Europe" has just been published and released by the National Association of Home Builders of America

The fourteen page printed booklet is the result of an inspection in which a number of prominent American builders viewed first-hand the progress of postwar building programs in England, France, Germany, the Netherlands, Italy and Switzerland.

Conditions observed ran from good to very bad.

European land planning and so-called community living programs seen in Holland and Switzerland, the best housed countries visited, were excellent. The worst housing was observed in France and Italy, while the home building in England has been virtually stymied by government controls because only one-fifth of the housing built is for sale, the remainder is government built for occupancy by approved tenants.

The Committee was formed to examine critically everything new and different in house design, materials and construction methods. Primary objective being to study European housing trends which might produce new ideas on low cost housing for America's low income families.

The trip permitted conferences with foreign builders, architects, and housing officials, and field trips in the five nations visited.

Studying the European postwar housing experience gave the U. S. builders a new appreciation of the great progress made in this country, as conditions in Europe today prove that the only way to provide housing at prices the average person can afford is through private enterprise, unhampered by government controls.

NEWS and COMMENT ON ART

AWARD WINNERS ANNUAL PAINTING AND SCULPTURE ANNOUNCED

Some eighty-six works were selected by the juries for inclusion in the 71st Annual Painting and Sculpture Exhibition of the San Francisco Art Association which has been showing at the San Francisco Museum of Art.

First award in painting, the $300 Anne Bremer Memorial went to Ralph Du Casse; and the $300 San Francisco Art Association Emanuel Walter Purchase prize was won by James Lee Hansen.

Fifteen other cash awards were made totaling some $1725.

CALIFORNIA PALACE OF THE LEGION OF HONOR

Thomas Carr Howe, Jr., Director of the California Palace of the Legion of Honor, Lincoln Park, San Francisco, has announced the following schedule of exhibitions and special events for April:

EXHIBITIONS: Paintings by Joseph Onato—San Francisco at Night; Paintings by Robert Watson; Paintings in Encaustic by Gilbert Steed; the Achenbach Foundation for Graphic Arts—Time and Man, and The Garden; and a special display of Loan Exhibitions at the San Francisco Public Library showing three Centuries of Botannical Prints, and The Church Year.

EVENTS: An Organ Recital is held each Saturday and Sunday at 3 p.m. featuring Richard Purvis and Ludwig Altman. Classes in painting for children, ages 6 through 14, are held each Saturday at 10:00 a.m. and Free Motion Pictures are shown each Saturday at 2:30 p.m.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, will offer an Exhibition of Paintings in Oil by D. Faralla, and an exhibition of Oils and Water colors by Theodore Polos and Alexander Nepote during the month of April.

The Pictures of the Month showing will feature Lucile Brokaw (Van Riemsdyk) work.

PORTLAND ART MUSEUM

Thomas C. Colt, Jr., director of the Portland Art Museum, West Park and Madison, announces a busy schedule of events and exhibitions for the Museum during April.

Included among Committee activities is consideration of the Committee of Selection; Committee of Selection for Artists of Oregon Exhibition, 1952; Artist Membership; and Art Committee.

A group of lectures will be held "Art of Primitive Peoples, by Theodore Stern, and "Prehistoric Stone Sculpture" by Priscilla Colt.

SAN FRANCISCO
MUSEUM OF ART
War Memorial Building

TO SAN FRANCISCO
Oil, by TOM LEWIS

Collection of the San Francisco Museum of Art, GIFT of William Gerstle.

The featured Exhibitions of the month include Artists of Oregon—1952; "Report From New York" —contemporary paintings; and Photographs by Alta Jourdan.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, is presenting a number of outstanding exhibitions during April.

EXHIBITS: Contemporary Mexican Art; Two Photography Exhibitions. Paris—an American Photographer's Impressions, and Photographs by Jasper Wood. New Collection Photographs by Alfred Stieglitz; A University Collects—an American Federation of Arts Exhibition; Marcel Breuer—Architect—a Museum of Modern Art Exhibition; and Art Makes Contact.

SPECIAL EVENTS will include the Composers' Forum, April 14; the California String Quartet, April 21; a Poetry Reading by Dylan Thomas, April 16; and a group of lectures on various art subjects each Sunday afternoon, Monday evening and Wednesday evening.

Classes in art include the Sketch Club and Painting Class each Friday evening, and the Children's Class on Saturday mornings.

SECOND ANNUAL TUCSON ART FESTIVAL

The second annual Tucson Festival, featuring a kaleidoscopic panorama of history and culture, Indian and folklore programs, and dramatic musical, and dance presentations is being observed in Tucson, Arizona, during April.

Mingled with the pageantry of a colorful past is an exhibit of arts and crafts created by many of the established artists of today who make Tucson their home.

Among those participating in the Festival are Yaqui Indian tribes, Tucson Symphony and Phoenix Symphony orchestras, Papago Indian tribes, University of Arizona, Tucson Fine Arts Association, Tucson Professional Photographers Association, Denver Art Museum, and a great number of local groups and individuals.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, has scheduled a number of special exhibitions and events for the month of April.

Featured among the Exhibits is a group of Paintings and Drawings by Gene McComas; Paintings and Sculpture by Barbara Herbert; Pacifica—a display of furniture, textiles and ceramics; and the Fifth Annual of the San Francisco Potters Association.

Professor Yukio Yashiro will present a lecture, April 2nd, on "Japanese Art."

The spring series of "Painting For Pleasure" and "Exercises In Perception" will start on April 19th and 23rd and continue for twelve weeks. The "Workshop," painting for appreciation, is held on Tuesday and Saturday afternoons, and "Drawing and Painting" for children 4 to 10 is held each Saturday morning. A class in Picture Making, for students 10 to 15 years old, is held each Wednesday, Thursday and Friday afternoon.

CALIFORNIA PALACE OF THE LEGION OF HONOR

The permanent collection of the California Palace of the Legion of Honor, Lincoln Park, San Francisco, has been enriched by the purchase of four important works of art, according to Thomas Carr Howe, Jr., director.

The new acquisitions include "Gabriello and Coco" painted in 1902 by Renoir; "Arabian Scene", a watercolor by Delacroix; "Romantic Landscape," by Alessandro Magnasco; and Byzantine, XI Century, fresco head.

STIEGLITZ COLLECTION OF PHOTOGRAPHS ON DISPLAY

A recently acquired collection of photographs by the American master-photographer, Alfred Stieglitz, is being shown at the San Francisco Museum of Art, War Memorial Building, Civic Center.

The collection consists of 58 prints and 4 gravures. Similar collections are in the National Art Gallery in Washington, D. C., the George Eastman House in Rochester, N. Y., Fisk University and other institutions.

HOLE ART COLLECTION IN NEW GALLERY

Permanent housing for the Willitts J. Hole art collection has been announced by art department officials on the Los Angeles campus of the University of California.

The collection of paintings of 56—European masters—including El Greco, Turner, and Peter Breughel, the elder—will be placed in the new U.C.L.A. Art Building. They have been in the Library.

The art masterpieces were collected over a twenty-five year period by the late Willitts J. Hole, pioneer Los Angeles real estate man, explorer, and patron of the arts.

UNIQUE FEDERAL CONSTRUCTION

"STREET OF RUINS"

BEING BUILT IN MARYLAND

One of the most unusual construction jobs ever to face a building contractor, the first rescue training "street" to be built in the United States, is under way at the Federal Civil Defense Staff College at Olney, Maryland.

Here an entire city street, complete with stores, a theatre, two-story dwellings, apartments and a five-story business structure, is being designed by the firm of McLeod & Farrara, Architects, under direction of the Federal Civil Defense Administration, Rescue Service Division, with construction in charge of Joseph B. Bahen, Construction Company, Inc., of Washington, D. C.

The Olney street will simulate ruins with store fronts blown out, floors of houses partly in basements, girders and beams twisted and contorted at odd angles, and with piles of rubble, dirt and broken concrete cluttering up all access to the buildings.

Yet the buildings are being constructed according to rigid engineering principles of stress, weight and the use of tested materials.

The advance rescue training course to be conducted there will afford realistic, first-hand experience in practical wartime disaster rescue operations. Civil defense rescue techniques are different from peacetime rescue operations which are largely concerned with the problems of resuscitation, saving people from drowning, gas effects and electric shock and with the removal of persons from buildings filled with smoke or on fire. An enormous task confronts the civil defense rescue service because of the lack of actual experienced rescue workers under conditions which will exist following enemy attack.

Designs of the structures were developed from studies made of high explosive bombings in Great Britain and Germany, as well as the effects of the atomic bombings of Nagasaki and Hiroshima.

The rescue "street" includes 1) an outdoor demonstration area for advanced training in the use of rescue tools, 2) two-story and basement wood-frame house, 3) two-story and basement row house, 4) two-story office, store, and theatre building, 5) three-story and basement office and apartment building, and 6) a five-story reinforced concrete building.

The outdoor demonstration area will have sections of brick walls and steel beam sections for practice in cutting concrete beam and slab sections for training in jacking and lifting; wall sections for shoring practice; debris piles, plaster, metal and wood lath and various types of building furnishings, arranged to provide practice in moving and handling debris.

The two-story and basement wood-frame house is one of the commonest types of dwellings found in the United States, particularly in the industrial areas of the East and Mid-west built between 1900 and 1915.

This set will provide the means for instruction in tunneling in earth and debris, requiring care and skill in removing victims without further injury.

This structure will have a simulated electric service in the basement, with voltage reduced to mildly "shock" the trainee if he is careless or mishandles the equipment.

The two-story and basement row house, is also found in most urban areas in the United States, particularly in cities of over 30,000. This is the familiar semi-detached, four-family flat, the two-story apartment or tenement house built in the period from 1890 to 1920, and generally found in the downtown areas of most older cities.

A great many of the city dwellings in Britain and Germany were of this type but were much older, and the mortar used in the brickwork not as strong as that used in the United States. FCDA experts conclude that these walls under bomb attack would not disintegrate into small bits, but would break up into large sections, with the side walls collapsing, or "pancaking" into horizontal layers, held apart by debris, furniture, etc. As a consequence another type of rescue technique will be required, and this the trainees will learn at Olney.

Water and gas services will be part of the equipment in the basement of this building. Water will pour out of simulated broken mains, flooding portions of the rescue area. Leaks in the gas pipes will saturate other areas, forcing the rescuer to don breathing apparatus and work his way to the asphyxiated victim. A harmless type of gas will be used.

The three-story and basement office and apart-

(See page 31)

WAYFARERS CHAPEL — Portuguese Bend, Rancho Palos Verdes, California

CHURCHES
CAN BE DIFFERENT

By ARTHUR W. PRIAULX

Christian man for twenty centuries has held amazingly steadfast to forms of the pointed Gothic arch in his houses of worship. The spire, the stained glass window, the vaulted ceilings of the nave are traditional. Ecclesiastical buildings, like religion's forms and ceremonies, resist change as heretical.

For nearly a decade now, an ever-widening group of ingenious western architects has slowly but surely set about to develop what amounts to a dramatic, modern Gothic style in church construction. Quick to grasp the almost limitless possibilities of a new engineering material—the glue-laminated wooden arch and beam—these men are today doing things with wood, shaped to their

INTERIOR . . . Wayfarers Chapel
Frank Lloyd Wright, F.A.I.A., Architect.

imaginative requirements, which has opened up great new vistas in church design.

With these wooden arches and beams, which are literally "shop grown" to exact shape and dimension specified by the designer, architects may have astounding latitudes in design. With these shaped-to-measure arches, they can build a cozy chapel in the pattern of the small English rural church with its oaken beams and hammered wooden arches. Or, they can capture the towering impact of the vaulted cathedral with tapered arches of rare beauty and utility. They can design

CEDAR HILLS COMMUNITY CHURCH
Near Portland, Oregon

Warren Weber, Architect

Ceiling 2" x 6" grooved hemlock and foyer walls of hemlock, stained to look like redwood. Beams are glued laminated Douglas fir. Church is 29' long x 60' wide x 39' high. (See Cover for exterior view.)

ST. CLAIR CATHOLIC CHURCH
Portland, Oregon

Barrett & Logan, Architects
John R. Murtaugh, Associate

Exterior combines beauty and durability of materials . . . interiors show flexibility of laminated arches and use where four, corner fitted arches support heavy lantern and tower structure.

VALLEY COMMUNITY UNITED PRESBYTERIAN
West Slope, Oregon

Donald W. Edmondson, Architect
Neil R. Kochendoerfer, Associate

short, sturdy arches to span a tiny nave for a community church or they can let their imagination run rampant and glorious and get man-made wooden beams which will span an area large enough to seat 1000 worshippers and still not need support posts.

Versatility is the word for these factory-shaped timbers. The designer can retain the classical styling in his arches, or he can be completely informal. He can, and generally does, leave the arches and beams exposed. The exposed, solid wooden beam has high fire resistance and is noted for its ability to stay in place and hold its position even when subjected to fire and heat for relatively long periods, for the timbers merely char.

Engineers have been able to retain the strength and beauty of the parallel grains of wood in these man-made arches. The full utilization of wood's natural strength is captured in the lamination of the large beams, made up from one- or two-inch

The gracious exterior with impressive spire is forerunner of beautiful curved lines and parabolic arches to be found in the interior of the modern Western church structure.

lumber. Curvature and taper are easily accomplished as the beams are built up in large presses and drying of glue line is assured with radio frequency arc driers which set the glue deep in the beam and all along the glue line at the same time.

Where arches will be exposed to weather, special penolic and exterior type glues have been perfected. Manufacturers use either one- or two-inch lumber, the thickness determined by the radius of the curvature required in the finished arch.

Most popular arches being designed by western architects are the variations of the modern Gothic, the Tudor or "boomerang," and the cathedral truss style. Traditional and classical arches can be matched with a faithfulness that is encouraging.

Western architects, in the past two years, have shown an inclination to depart rather daringly from the conventional and traditional ecclesiastical form. It must be admitted the effect is most pleasing and in every instance has been accomplished without any possible affront to man's traditional interpretation of what his house of worship should include.

SAN MARINO COMMUNITY CHURCH
San Marino, California

Allison & Rible, Architects

An outstanding Southern California Community Church group embodying modern exterior architectural design . . . with interesting use of the v-type glued arch in the interior main chapel.

CHURCHES CAN BE DIFFERENT . . .

Probably the most startling of the many new church buildings designed and built along the coast in the past two years, since our last report, and in which the laminated arch is the central theme of the structure, is Architect Frank Lloyd Wright's amazing Wayfarer's Chapel, at Portuguese Bend, California. (See page 12)

Here at Rancho Palos Verdes on a lookout perch or bench high above the Pacific is the church of the sun. It is a glass chapel, held together with ribs of laminated redwood. All the beauty of the outdoors is the varied fare of the worshipper as he listens to his sermon on chants his songs. It is eccentric, it is striking, yet it has a beauty and dignity which belongs to houses of worship of other lands.

It has remained for Portland's Warren Weber to design the most unique church structure built in the northwest in many years. This younger architect threw tradition almost out the window when he designed the Cedar Hills Community Church (Con-

MONTICLAIR METHODIST CHURCH
Oakland, California

David A. Wright, Designer

One of the more dramatic of the new Churches is the Monticlair Methodist in Oakland, where David Archibald Wright has conceived something new and striking with its "open face" doorway and side, and wide floor-to-floor arching interior.

HOPE LUTHERN CHURCH

Bozeman, Montana

Oswald Berg, Jr., Architect

A feeling of friendliness has been obtained in this modern Montana Church as the liberal use of windows has stimulated a closeness to the out-of-doors. Simplicity of exterior and interior design contributes to the friendliness of the parishioners.

gregational) for Portland's rapidly expanding population in the west hills. The church property was on low ground. Funds were limited, as is usual in church jobs. Weber decided he could get needed height in his church and seating capacity by building a structure in a wedge or triangle shape, where walls become roof and roof serves the purpose of walls. Towering 40 feet above the low swale on which it stands, the structure is wedge-like. Straight laminated beams are anchored in the concrete slab and join in a V. They are covered with a two-inch, tongue-and-groove hemlock over which red cedar shingles have been laid. This is what Weber is pleased to call the contemporary Gothic arch. Large footings were built to prevent the wind from blowing the wedge over. Diagonal tie rods to give added rigidity were used in one section at the rear of the church and have been left exposed. On the east side of the roof-that-is-a-church is a large glass window, six by twenty-seven feet in size which lights up the chancel, but lets in a side light which is not too bright for the worshippers. A clerestory light in the north end, facing the chancel and pulpit gives light to the other end of the remarkable church structure. Saw kerfs have been cut in the hemlock and give excellent acoustical results.

Barrett and Logan and associate Murtaugh, Portland architects, solved a difficult design problem in the St. Clair Catholic Church of Portland by creating laminated arches to support an extra heavy lantern and tower.

Unusual are the four boomerang-type arches which rise up from the four corners of the intersection of the nave and transept. Smaller arches have been used the length of the nave and transept and these four larger arches, styled to match the rest of the church interior, project upward into the lantern well. The lantern, which contains clere-

ZION LUTHERN CHURCH

Portland, Oregon

Pietro Belluschi, Architect

Using laminated arches, native woods, and brick, Architect Belluschi has created a Church here that attracts attention of student as well as layman. Detail illustration shows beauty of design and immaginatian.

story lights on all four sides, rests atop the ribs of the arches. A post, joined where the four arches meet, becomes a support for the tower above the lantern which also fits into the roof member.

All arches in this structure have been chamfered to break any stiffness in square edges. The problem was to develop strength without undue increase in size of supporting members. The glue-laminated arches were the perfect solution for they enabled the designers to retain the beauty of the Gothic style found elsewhere in the church.

In the San Marino, California, Community Church, Allison & Rible, Los Angeles architects, have captured a very pleasing effect with a modified form of the Gothic arch. The heavy arches, which have been left exposed with satisfactory results, have been rounded at the peak to break the sharp juncture of the Gothic interior. There is an accentuation of great weight in these arches which matches well the full wall of smaller support arches along the nave. There is definitely a feeling of strength in this interior, a symbolism undoubtedly consciously striven for by the architects.

One of the northwest's most active church designers is Donald W. Edmundson, Portland architect, who numbers more than twenty-five such edifices among his works of the past five years, all built around the glue-laminated arch of wood. Selected for its rare beauty and distinctive variation was the Edmundson-designed Valley Community United Presbyterian Church, also built in Portland's fast-growing West Slope area.

A dramatic effect has been obtained by Edmundson in his use of the beautiful, curving para-

North Elevation of
FIRST PRESBYTERIAN CHURCH
Santa Rosa, California

FIRST PRESBYTERIAN CHURCH

Santa Rosa, California

C. A. Caulkins, Jr., Architect

Interesting, modern church interior of newer architectural design.

bolic arch. He calls the glue-laminated arch, a new, modern tool of the architect, whose only limitation is the extent of the designer's own imagination and daring.

Valley Community is the modern version of what Edmundson's predecessors designed for the small parishes of the English countryside. Here he has kept the exposed wooden beams, so much a part of most churches. The purlins have been stained to match the arches, all of which against the white background of the masonry walls and ceilings give a dignity and gracefulness that is soothing and restful. Edmundson defines the glue-laminated arch as essentially a triangle anchored at two bottom points and at joining center. He likes the wide flexibility of this laminated arch which can be built up into so many shapes and sizes.

Oswald Berg, Jr., an outstanding architect of Bozeman, Montana, has added a refreshing note to his conception of the modern church building. His Hope Lutheran Church, of Bozeman, eliminates the solid confining walls of most churches, gives parishioners a full view of the outdoors with full-length windows along both sides of the nave. White-glazed windows behind the chancel light up that portion of the church structure with a pleas-

GARDENA METHODIST CHURCH

Gardena, California

Harry L. Pierce, Architect*

A. E. Howland, Engineer

Newest addition to the Gardena Methodist Church group is noted at the left. Architectural design blends in with other buildings even though modern touch has been added.

The wooden arch members (interior) have been covered giving pleasing and lofty cathedral quality.

***Deceased**

ing warmth. Berg has departed from the stiffness and sternness of older church design and has achieved with the aid of boomerang-type arches a house of worship which has a welcome-home atmosphere.

Oakland, California's architectural designer, David Archibald Wright, has come up with one of the most remarkable church structures in the very different Montclair Methodist Church of Oakland.

The main nave has been built with parabolic glulam arches thirty-six feet in length. The graceful lines of the parabolic arch gives a roundness and a delightful fullness to the main church room. The solid wooden decking of the roof has been finished with the arches to retain much of the natural grain and beauty of the wood.

It is in the entrance that designer Wright has shown fine imagination. The entire front entrance of the church is glass so that one may stand on the concrete walkway entrance and see the full length of the church interior. A friendly pylon on one side and a low masking wall of brick on the opposite break any naked effect. The result is charming and friendly.

Portland's Pietro Belluschi, who has recently become dean of Massachusetts Institute of Technology school of architecture, has created many a fine church structure in the Oregon country. Probably one of his most noteworthy is the Zion Lutheran Church which nestles just at the foot of Portland's upward sloping hills.

Simplicity is the keynote of this very distinctive house of worship. Belluschi has combined grace-

IMMANUEL LUTHERAN CHURCH

Riverside, California

B. H. Anderson, Architect

Designed by the architect in the solemn, dignified styling of the old Gothic. It contains a definite strength of character and beauty.

ful, reaching laminated arches with timbered ceilings and brick walls. A feature of the brick walls are the glass brick "windows" placed at odd spaced intervals along both walls of the nave. The glass bricks give a life to the otherwise solid brick wall which is most pleasing and comforting. Belluschi has made excellent use of native woods around the chancel with vertical wood paneling on the sides and across the end. The upsweeping arches give a marked feeling of strength as they blend into the natural wood ceiling and supporting purlins and bracing.

When C. A. Caulkins, Jr., was asked to design the First Presbyterian Church of Santa Rosa, California, he was confronted with the usual problem of economy, getting the most church building for the least money. He said he was never in doubt from the beginning that he would use the laminated arches. The arches, he says, add a great deal to the beauty of the church room as well as giving it a character. By eliminating truss members, rods and the usual metal fittings associated with nonfabricated arches, Caulkins said the general appearance of the church was improved.

The boomerang arches used at Santa Rosa demonstrate still another style of arch which can be built up with the glue-lamination technique. Here the heel of the arch becomes a part of the wall frame.

The Community Congregational Church of Chula Vista, California, designed by Walter C. See, of San Diego, demonstrates a V-type arch with a parabolic curve. Architect See points out that this style of arch is ideal for the balcony-type nave height as well as the lower roof line. Laminated arches were selected for this church because of their acceptable appearance, See reports.

The Chula Vista Church has several outstanding architectural features. Radiant-convection heating has been provided in the solid cast concrete slab. The nave floor is a slab over a system of metal domes which permits the flow of warm air under the entire slab. Additional convection heating is also provided by ducts from below the slab to warm air registers in the side walls. Fresh air can also be introduced by this system. Cold-cathode indirect lighting has been installed in the nave.

The arches, purlins and two-inch, tongue-and-groove sheathing were left in their natural and original color as much as possible, and only a small quantity of stain was used. The contrast against the plaster is good. The distinctive mood of Christian worship has been faithfully retained in

ONEONTA CONGREGATIONAL CHURCH (See opposite page for details)

the splendid Oneonta Congregational Church of South Pasadena, designed by Marsh, Smith and Powell, of Los Angeles.

The striking beauty of the Gothic arch has been captured to a remarkable degree in this church. The architects used forty-six foot arches which are distinctive for their graceful lines and their depth. Features of the old English church have been achieved here, the combination of plaster walls and timber. Some prefer to call the design of this church American-California, disclaimed as modernistic, but holding strong to the heritage of the past. Actually, the Oneonta church is an exceptional building, combining many new features, such as direct and indirect lighting around the chancel and in the sanctuary. One thing we liked particularly is the ability of the architects to let some of the inner beauty of the building show through. This is true in the treatment of a solid concrete wall where small stained glass windows have been used so effectively they become as beautiful from without as from within.

The late Architect Harry L. Pierce has skillfully

ONEONTA CONGREGATIONAL CHURCH

South Pasadena, California

Marsh, Smith & Powell, Architects

One of the rarest of the new churches on the West Coast is the lovely Oneonta Congregational Church of South Pasadena. Recognized nationwide, it is a striking symbol of beauty from the exterior and the finished interior is complete.

COMMUNITY CONGREGATIONAL CHURCH
Chula Vista, California

Walter C. See, Architect

Following the dignified lines of strength and character of the old English Gothic, the architect has utilized modern materials for interior design construction.

used the Gothic arch in his Gardena, California, Methodist Church, and has chosen to cover the timbered members. The beauty of the lines of the fabricated arches is there, but they have been plastered to achieve an unusual effect. Only a tracery of wood is visible against the ceiling whose stained surface shows to advantage against the white of the plastered walls and ceilings. This is a beautiful church and illustrates the wide variety of stylings being adopted to western church design.

Architect B. H. Anderson, of Pomona, has done some of California's better known church structures. The Riverside Immanuel Lutheran Church is one of his latest and comes close to being a replica of some of the centuries old English churches. Its heavy-timbered ceiling is supported by graceful laminated arches which show up in dark richness against the plaster walls of the nave. Here is a church building with a character and heritage identified in the minds of millions with the Christian religion.

William Woollett, Los Angeles architect, summarizes the feeling of many of his profession as he points out that laminated trusses, properly constructed, eliminate much worry for the designer. He can anticipate extremely heavy roof loads, such as slate shingles, without fear of damage from earthquake or high winds. A feature Woollett comments on is the opportunity to obtain arches and trusses of accurate workmanship which will not strain under uneven loading conditions or eccentric loads.

Several architects took pains to remind us of the wide variety in size, length and shape of arches which can be fabricated with ideal results today. Barrett and Logan called attention to their lovely St. Clair Catholic Church in Portland as an example of how structurally easy it is to blend laminated arches of varying sizes as you progress from the small narthex or sanctuary into the larger nave and transept and finally to the very large, cathedral high arches which support the lantern and tower.

So many churches retain the cruciated or cruciform floor plan that architects are constantly confronted with problems of designing roof sections with grace and form where nave and transept meet. The flexibility of the shop-grown laminated arch has opened up immense possibilities which western designers and architects by the hundreds are adapting to their needs.

A study of hundreds of western churches built within the past two years convinces us that the genius and imagination of the architect and designer are the only limiting factors. Lloyd Wright's breathtaking Wayfarer's Chapel; Warren Weber's extreme but functional Cedar Hills Church; and Wright and Craig's startlingly modern Montclair Methodist Church give us an idea of what great variations are possible in church design without offending tradition, heritage or religious mood.

PHOTOGRAPHIC CREDITS: Photographs used in illustrating "Churches Can Be Different" were made available by the following: Cover, Carl E. Vermilya; Julius Shulman, pages 12, 23 lower; Photo Art Commercial Studios, pages 13, 14 top, 17 top and lower, 18; D. W. Edmundson, page 14 lower; Timber Structures, page 14 top, 16 top, 17 top and lower, 18, 19, lower; Fred R. Dapprich, page 15 lower; Maurice R. Wallace, page 16; Miles Berne, page 20 top; "Dick" Whittington, page 20 lower; Burpee-Wilkinson, page 21 lower; Rode Photo Service, page 23 top; and Summerbell Roof Structures, pages 12, 15 top, 20 top, 21 top, 22 lower, 23 top, and 24 top.

A Luminous ceiling of egg-crate louverall construction, integrated with acoustical and ventilating treatment, was used to modernize the Bank of America's main Oakland branch. More than half a mile of 8-ft. slimline fluorescent tubing was installed above the louvers.

Illuminotion ranges 40 to 79 foot-candles.

TREND TO INTEGRATED CEILINGS TOLD AT LIGHTING CONFERENCE

ILLUMINATING ENGINEERING SOCIETY HOLDS FOUR-STATE REGIONAL LIGHTING MEETING IN SAN FRANCISCO

An increasing trend toward integrated ceilings, particularly in new construction, was forecast March 14 before a four-state regional conference of the Illuminating Engineering Society at the Hotel Sir Francis Drake, San Francisco.

H. L. Wollman, research engineer of the Capital Company, told the more than 200 delegates from Arizona, Utah, Nevada and numerous California cities that functional and structural integration of ceilings has several advantages. He pointed out that it not only provides all the services required—lighting, ventilation, air conditioning, insulation, acoustical control—but it also creates a cheerful, comfortable atmosphere. Supporting all the required facilities from a single suspension system affords the possibility of important cost reduction, he said.

The speaker reviewed the various types of "packaged" integrated ceiling units available from manufacturers. When the ceiling is built up from materials commonly available on the market, it is necessary to plan the integration from the beginning and to control costs, he said.

Wollman cited as an example of the latter sort an installation in the main Oakland branch of the Bank of America which was made for the Capital Company under his direction. The bank now is the best lighted of all Bank of America's 526 branches.

GEORGE J. TAYLOR
Eastern Sales Manager
Day-Brite Lighting, Inc.

It features a louverall ceiling with continuous rows of 8-foot slimline fluorescent lamps mounted above on 14-inch centers. Acoustical material was applied above the lamps. The wells of the former skylights provided space for the installation of ducts for ventilation. Both ventilation and acoustical control are facilitated by the egg-crate louverall ceiling. The whole installation blends harmoniously with the Roman

(See page 33)

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SAN DIEGO CHAPTER

Frank Hope, chairman of the Civic Design Committee, served as chairman of the March meeting which was devoted to a discussion of City Planning with Anderson Borthwick, Stanley Grove, Aubrey Davis, O. W. Campbell, Glenn Rick, Jean DuPaul, Willis H. Miller, and Judge Edgar Luce, all prominent civic leaders in San Diego and Southern California, taking part.

The subjects discussed included Zoning, Architectural Control and the History of Planning in San Diego.

Jack Lewis was appointed chairman of a committee to prepare an Architectural Exhibit, with accompanying brochure, for display at the San Diego County Fair.

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LeBRUN TRAVELING SCHOLARSHIP FOR ARCHITECTS IS ANNOUNCED

The annual nation-wide architectural LeBrun Traveling Scholarship competition, sponsored each year by the New York Chapter of The American Institute of Architects, will again be awarded this year according to J. Bruno Basil, chairman of the Chapter's scholarship committee.

The problem for this year's competition is a Library, with facilities for outdoor reading, informal lectures and small art exhibits suitable for a town of 30,000 population.

Contestants must be either an architect or draftsman between the ages of 23 and 30, a citizen of the United States, and must be nominated by a member of the A.I.A. The winner will receive $2800 and is required to spend it for a minimum of six months travel in Europe.

CALIFORNIA LEGISLATORS GET LESSON IN CONSTRUCTION

The mounting costs of school construction are not due to the fees charged by architects, but to practically every other factor involved members of the Assembly Committee on Education learned at a recent conference between representatives of the architectural and engineering professions and the law makers.

Speaking on provisions of the earthquake-safety act, Professor of Seismology at the University of California, Perry Byerly declared, "The cause of

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Producers' Council—Northern California Chapter (See Special Page)

earthquakes is faulting, where high mountains meet the sea. The coastal portion of California is drifting north at the rate of two inches a year. Inevitably the strain becomes so great that breakages occur, and the resulting earthquake may be felt throughout the state."

Damage depends more upon the foundations and construction than on the proximity to the earthquake center, Dr. Byerly said.

John Lyon Reid, A.I.A., architect on San Francisco represented the California Council of Architects at the hearing and Arthur Sauer of Sacramento represented the Structural Engineers Association of California. State Architect Anson Boyd spoke in support of the safety act.

SOUTHERN CALIFORNIA CHAPTER

Colonel Edward S. Shattuck, Attorney and Engineer, addressed the April meeting on the subject "Architectural Law," and Harold Henry, president of the City Council spoke on "Civic Affairs."

Both discussions were of particular interest to members in view of recent legal developments in a number of instances elsewhere in the State wherein architects were involved, and with the possible leveling off of defense spending more thought is being given to civic situations.

SAN DIEGO WOMEN'S ARCHITECTURAL LEAGUE

The San Diego unit of the Women's Architectural League, recently heard an informative and interesting discussion of the use of colors.

Speaker for the occasion was Mrs. Margo Graham, Color Consultant of Hollywood.

Arrangements for the program were in charge of Mrs. Wm. Wilkinson.

CALIFORNIA COUNCIL OF ARCHITECTS

The next meeting of the Council will be held in June with the Pasadena Chapter serving as hosts, and important legislative and governmental reports will be presented by committee chairmen

(See page 34)

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Structural Engineers Association of Northern California
John J. Gould, President; G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Ass't. Sec.; Wm. K. Cloud, Ass't. Treas.; Directors Robert P. Dalton, John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick. Sec. Office, 417 Market St., San Francisco.

Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauers directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION SOUTHERN CALIFORNIA

Electric Strain Gages and Their Application was the subject of a talk by Dr. A. C. Ruge, of Ruge-de Forest, Inc. of Cambridge, Massachusetts, at the regular April meeting, held in the Alexandria Hotel, Los Angeles.

Dr. Ruge is the developer of the widely used SR-4 electric strain gage and was formerly with the Massachusetts Institute of Technology. He illustrated his talk with a number of slides.

New members include Harry Bieber, Arthur H. Cook, August John Glaser, Sigmund Levin, J. W. Meaderville, Murray Merrin and Rhodes E. Rule, Associates; and William McEwen, John Majdick and Alexander W. Ronald, Junior Associates.

Announcement was made that the May meeting scheduled for the 14th would be a joint meeting with the ASCE.

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NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS ELECTS NEW OFFICERS

John D. Coleman of Dayton, Ohio, executive of the Frigidaire Division of General Motors Corpn., has been elected President of the National Society of Professional Engineers for the ensuing year. He will take office on July 1.

The Society is composed of engineers who have met the requirements for registration in the state in which they reside and has more than 300 Chapters in thirty-eight states.

William D. Williams of Phoenix, Arizona, a sanitary engineer associated with the firm of Headman, Ferguson & Carollo, is vice president of the Western Area, and serves with five other regional vice presidents on the Board.

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

Jean Muller of the Freyssinet Company, New York City, spoke at the April meeting on "Prestressed Concrete" and described the application of prestressed concrete to construction of buildings, bridges, and water front structures in Europe. Educated in Paris, Muller is a designing engineer that came to the United States about a year ago and his comment on the construction industry abroad was very interesting.

New Affiliate members include John B. Harrington, superintendent of construction for the American Trust Company, and Burr H. Randolph, senior structural engineer for Pacific Island Engineers.

AMERICAN SOCIETY OF MILITARY ENGINEERS—SAN FRANCISCO POST

Frank E. Marsh, executive vice president and general manager of the San Francisco Bay Area

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Office, 1700 So. Main Street, Los Angeles.

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Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

Council, spoke at the April meeting on the subject "Development of the San Francisco Bay Area."

Representing the nine counties bordering on San Francisco Bay, Marsh gave a report on his organizations efforts to stimulate business activities in the area.

A brief ceremony was observed during which presentation of the Colors was made to the Post, and among business considerations was the annual report of the president, which indicated membership in the group was increasing on a steady basis.

SCIENTIFIC RESEARCH SOCIETY ORGANIZES TEXAS CHAPTER

The Scientific Research Society of America opened a branch at the Southwest Research Institute in San Antonio, Texas, recently with Dr. Charles A. Culver, dean of professional development at the Institute being elected president.

Other officers named included Dr. John Loefer, research biologist of the Southwest Foundation for Research and Education, vice-president; Dr. John C. Cook, SwRI physicist, secretary; and Fred Koebel, SwRI mechanical engineer, treasurer.

Membership is based upon demonstrated research ability and published results while its primary purpose is to encourage original investigation in science, pure and applied.

CENTENNIAL OF ENGINEERING INSPIRATION TO YOUTH

One of the main objectives of the Centennial of Engineering to be celebrated in Chicago later this year, will be to inspire more young men and women to take up engineering as a career, according to Lenox R. Lohr, president of the Museum of Science and Industry, former head of the National Broadcasting Company, and president of the Centennial.

Student enrollment has dropped alarmingly below that needed to maintain the pace of American industry, and conservative estimates indicate that the requirements of industry in 1954 will be at least 32,000 new engineering graduates, with 64,000 needed in 1960. The U. S. Office of Education reports only 17,000 will come out of the 1954 classes, while the Engineering Manpower Commission makes the more pessimistic prediction that the college output for 1954 will not total 12,400 engineering graduates.

It is pointed out that "if our industrial progress is to continue and we are to maintain our dominant position in world affairs, all constructive steps should be utilized to persuade young men to take a technical education."

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PRODUCER'S COUNCIL PAGE

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Regular Meeting

The Producers' Council held its monthly informational meeting at the Palace Hotel on Monday, March 17, at which time Panel No. 1 entitled, "Indoor Climate Control", was presented to a large audience of guests and members.

The program was in three parts consisting of automatic control presented by Mr. Ed Dill of the Minneapolis-Honeywell Regulator Company, insulation of structures by Alfred Bennett of the Owens-Corning Fiberglass Corporation, and insulation of the glass area by Mr. Roly MacNicol of the Libbey-Owens-Ford Glass Company.

The discussions dealt with each company's contribution toward the three factors of indoor climate control; namely, temperature, humidity and air motion.

It was pointed out by Ed Dill that the supply of heat to the structure should be subject to automatic control which could be either of the simple "on" and "off" type, or be of a modulating or continuous type of operation. It was pointed out that the floor heating plan arrangement now in use complicates the control due to the time lag involved in heating the large floor mass. With this type of heating and with the additional complications due to direct radiation from the sun's rays, it was Mr. Dill's suggestion that a thermostat and zone control be provided for each heating area of the home which would treat these areas individually and independently to accomplish an even and constant climate throughout the structure.

Mr. Bennett of Owens-Corning-Fiberglass Corporation pointed out the necessity of proper insulation with fibre glass of the walls and ceilings to provide reduced heating expenses and to furnish comfort for the occupants. We were shown that the insulation should provide a moisture barrier on the warm side of the exterior walls to eliminate condensation within the walls and condensation on the room side. As advice to the architects, Mr. Bennett stressed the point that the insulating material should be specified as vapor-proof and not simply moisture proof when used as a vapor barrier.

As large window areas are now the accepted rule in home and school construction, the insulation of the glass area is of great importance to control heat loss through the glass area, elimination of down drafts from the glass surfaces, and condensation on the windows on the room side, as pointed out by Mr. MacNichol of Libbey-Owens-Ford Glass Company. Mr. MacNichol recommended Thermopane as the best solution and he pointed out that if the direct radiation of the sun is the particular problem in question that it can be more adequately solved by the use of a special type of heat absorbing Thermopane which more adequately controls this radiant energy than does the regular type of Thermopane installation.

Invited Guests

It is currently the practice of the Council to invite guests, two for each member company, to attend the informational meetings. A complete roster of the local architects and engineers is maintained and the selection of guests is made alphabetically and on a rotational basis. The invited guest receives a card as does the Council member who, in turn, checks with the guest to see if he will be able to attend. If the invited guest is unable or does not desire to attend the particular meeting, the member is asked to select another guest of his own choosing.

In the past, the request has been made by a number of architects regarding the possibility of attending some of the informational meetings, even though they did not receive an invitation to be a

(See opposite page)

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guest of one of the member companies.

Ways and means are now being considered whereby we can enlarge the field of the attending architects and engineers when informational meetings are held. It is, of course, highly desirable to have as many attending guests as is practically possible, and the Council would appreciate any suggestions from either architects or producers along these lines. While it is our desire to reach as many architects as possible with these informational meetings, our facilities are limited and this must be taken into consideration so that sufficient time is available to prepare the reservations.

STREET OF RUINS

(From page 11)

ment building is typical of the period from 1920-1930, when steel skeleton construction began to replace wall-bearing structures, and structural steel floors and roofs were gaining in favor over wood-joint framing.

Many of the urban area buildings in American cities are of this type. This is equally true in Britain, Germany and Japan, where excellent opportunity for study of bomb damage was afforded. In America, the Texas City explosion in 1948, provided material for the examination of explosion damage in this type of structure. Further, since the exterior walls in this structure are light, and serve merely as a covering, large quantities of rubble will be present. Floor panels will collapse and partitions and plaster will fill each level with debris.

In the basement, water, gas, electric, and sewer installations will confront the trainee with problems due to breakage of these services.

Another structure going up at Olney is quite familiar to most Americans—the office-store-theatre-type building, two stories high in front, with a high-ceilinged garage or workshop in the rear.

It is typical also of some of our city school buildings, as well as other places of public assembly, such as theatres, movies, meeting halls and bowling alleys. This type of structure is not well-suited to withstand the effects of an atom bomb explosion. The big danger is from disintegration or movement of the walls which would cause a collapse of the roof and floors and entrapment of its occupants.

The addition in the future of a driveway in the rear will provide a typical "back alley" situation, with its own peculiar rescue problems. Simulated fire and smoke hazards make up part of the exercises to be carried out in this structure.

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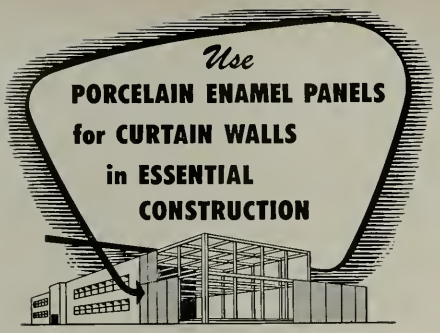

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be typical of most large business, institutional and public buildings today. Offices, banks, hospitals and schools are in this category. Columns, beams, floor slabs, roofs and sometimes exterior walls are of reinforced concrete.

This set will pose the problems apt to confront rescue workers in multi-storied structures. The problem of extricating trapped persons becomes complex in this type of structure because of the number of stories through which the rubble falls and accumulates.

Special equipment, such as mobile cranes and booms for lowering casualties will be employed. Special safeguards must be provided for the rescue crews simultaneously at different floor levels.

Similar Japanese reinforced concrete buildings designed to resist earthquake, withstood the atomic blasts reasonably well.

Damage to American buildings from atomic blast will consist mainly of twisted steel columns, dislocation of cross beams and the falling away of the walls between them. The outside frame would probably remain.

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INTEGRATED CEILINGS

(From page 25)

classic architecture designed when the bank was built in 1906, and it provides a light intensity of 40 to 70 footcandles over the entire working space and lobby area.

Commenting on Wollman's address, Reuben E. Lagerstrom, a member of the Society, told the conference there are now about 6000 square feet of luminous ceilings using corrugated vinylite plastic in the San Francisco Bay Area. He cited one of these in the new library of the University of California as providing probably the best library illumination in the world today, with 3.8 watts of lighting installed per square foot, giving 120 footcandles of illumination on the working plane.

Banks always have presented a difficult relighting problem because of their high ceilings and ornamentation, Lagerstrom said. Luminous ceilings are an excellent solution. Such ceilings answer an objection of some architects that fluorescent light sources are too bulky. At higher levels of illumination, luminous celings cost less than other means of lighting, and they can be adapted to any type of light source that may be developed, he said.

The conference heard a strongly-voiced plea from George J. Taylor, widely-known New York illuminating engineer, for greater attention to brightness engineering in lighting design for offices. The speaker, eastern sales manager of Day-Brite Lighting, Inc., declared:

"Brightness engineering means we must have a thorough understanding of footcandles and footlamberts. We must know all about walls and their colors, the floors, the finishes and reflectances of furniture and desk tops, vertical reflectances as well as horizontal, and the reflectances of equipment — typewriters, accounting machines — that may be in the room."

The prospect of numerous architectural applications for a new light source developed from research into the phenomenon of photo-electric luminescence was held forth by William P. Lowell, Jr., manager of commercial engineering of Sylvania Electrical Products, Inc., Salem, Mass.

Lowell exhibited glass plates which were made to glow in several colors. Although still in the developmental stage, the process has been used to achieve light intensities which are adequate for many practical applications, he said. He suggested luminous stair risers, luminous side walls of escalators, lighted cocktail table tops, and decorative applications in homes. The sheets exhibited were 12 inches square but they could be made in any size desired.

Electroluminescence is produced by dispersing a film of a phosphor in a dielectric and placing it between two conducting plates, one of which is light transmitting, Lowell explained. The materials

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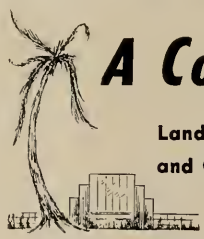

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luminesce directly under the influence of the electric field, which, however, must constantly be fluctuating in intensity. This apparently is a direct transformation of electric energy into light, and it opens up a new field of study with intriguing possibilities, both theoretical and practical, Lowell said.

The conference was opened by Samuel G. Hibben of New York, national president of the Illuminating Engineering Society and director of applied lighting of the Westinghouse lamp division at Bloomfield, New Jersey. Emphasizing the need of continuous improvement of lighting, Hibben said that more than 20 per cent of the best young manhood of America cannot see well enough to be qualified for full military service. The Society recognizes its responsibility for the preservation of human vision, he said.

"A Salute to Lighting Progress," a dramatic demonstration of the newest lighting equipment for every field of use, was presented by Alston Rodgers, illuminating engineer of the General Electric Company, Nela Park, Cleveland, Ohio. Americans are using approximately 60 per cent more electric light today than they used only five years ago, Rodgers said.

Willard C. Brown, manager of engineering at the General Electric Nela Park laboratories, told the conference a revolution in industrial lighting is under way. Since 1919 there has been no appreciable change in industrial lighting except the substitution of bare fluorescent lamps for bare incandescent lamps in the most usual installations. Now, however, several fixture manufacturers are designing fixtures for industrial use which will give workers protection for their eyes comparable to the protection afforded office workers.

Another speaker was Manno N. Harder of the California State Division of Architecture, who described the lighting of the new Capitol Annex building in Sacramento.

The conference was sponsored by the Northern California Section of the Society under the general chairmanship of H. H. Robison, supervisor of sales in the East Bay Division office of Public Gas and Electric Company in Oakland.

A.I.A. ACTIVITIES

(From page 27)

and members who have already pointed out the need for a strong cooperative program to meet encroachment by governmental bureaus on the private practice of architecture.

Plans for the 1952 annual convention in Yosemite on October 8-9-10 are being made and tentative schedule of program and events will soon be announced. In the meantime, William Koblik, council president, is urging that all architects make their plans now to be sure and attend.

NORTHERN CALIFORNIA CHAPTER

The Northern California Chapter Bulletin made its initial appearance during the past month and apparently was well received. Enlarged in physical size and scope of content the first issue was devoted to a special listing of a number of "allied interests," information which the new Bulletin editor F. Bourne Hayne felt would be of special interest to architects.

ARCHITECTS INVITED TO SUBMIT DESIGNS

Architects from all parts of the nation are being invited to submit designs for hanging in the "Hall of Church Design" at the International Churchmans Exposition scheduled for May 19-24 at Chicago's International Amphitheatre.

The Chicago Chapter A.I.A. is cooperating in the exhibit and securing architectural speakers for the convention which will be attended by an estimated thirty thousand persons.

Entry blanks for the exhibits may be obtained from the International Churchmans Exposition office 19 S. LaSalle Street, Chicago 3, Illinois.

SAN FRANCISCO CHAPTER WOMEN'S ARCHITECTURAL LEAGUE

Coincident with the appearance of spring the San Francisco Chapter of the Women's Architectural League, in collaboration with the San Francisco Artists' Equity Association, recently conducted a tour of selected homes and artists' studios of the Bay Area.

Five selected homes were included, and four studio groups were chosen. The complete tour was conducted on two separate days.

Mrs. Wendell R. Spackman served as Tour Chairman; Mrs. Norman K. Blanchard was Ticket Chairman; and Mrs. Donald E. Olson was in charge of publicity.

ARCHITECTS AND ENGINEERS HOST SAN FRANCISCO OFFICIALS

The Northern California Chapter of the A.I.A., and the Consulting Engineers Association of California, met with presidents and managers of various San Francisco City commissions the latter part of March at an informal dinner at the Palace Hotel.

Thomas A. Brooks, Chief Administrative Officer of the City and County of San Francisco, discussed some of the construction projects now in progress and under future consideration.

Since World War II approximately 250 million dollars worth of construction has been performed for the city with the majority of structures being designed by local architects. Several million dollars more will be spent in the near future in the construction of additional City and County buildings, it was pointed out by Brooks.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

EARLY AMERICAN ARCHITECTURE—From the First Colonial Settlements to the National Period. By Hugh Morrison. Oxford University Press, New York City. Price $12.50.

A scholarly, readable study of architecture in the colonies from St. Augustine in 1565 to San Francisco in 1848, it covers colonial architecture in all its manifestations.

The author's primary emphasis is on the many architectural styles, and the various conditions that produced them. Each style is presented, both in text and illustrations, by a selection of typical examples, by monuments of particular historical importance, and especially by buildings that are dated with reasonable certainty. The remarkable collection of nearly five-hundred photographs and drawings of exteriors, plans, interiors, and details, with the substantial framework of facts, terms, and dates, makes the book a clearly organized and extensive work of interest to the layman as well as to the architect, student, and art historian.

THE RISE OF THE SKYSCRAPER. By Carl W. Condit. The University of Chicago Press, 5750 Ellis Ave., Chicago 37, Ill. Price $5.00.

Following the great fire of 1871, Chicago became the leader in architectural renaissance which was to have its effect on cities throughout the world.

The author is Assistant Professor in Humanities at the Technical Institute, Northwestern University, and in this book has endeavored to present and evaluate the contribution of the "Chicago School" of architecture, not only in the modern techniques, but also in the creation of a new building form as well.

Such historic achievements as the Home Insurance Building, The Rookery, the Monadnock, the Auditorium, the Ashland Block, the Second Leiter, and the Gage, Tacoma, and Reliance buildings are described and included with inauguration of new design in architecture is the new use of building materials.

The author's research has brought to light many rare photographs and prints of Chicago's buildings many of which are no longer standing. The book is of great interest to anyone interested in architecture, design, or progress in building material uses.

HEATING VENTILATING AIR CONDITIONING GUIDE—1952. American Society of Heating and Ventilating Engineers, 62 Worth Street, New York 13. Price $7.50.

An instrument of service prepared for the profession and containing extensive sections devoted to 1) Reference material on the design and specification of heating, ventilating and air conditioning, 2) Manufacturers' Catalog data section containing essential and reliable information concerning modern equipment.

The book contains 1496 pages of text, charts, maps, designs, and other illustrated material.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

363. INSULATED CAVITY WALL. A new brochure covering the development of the insulated cavity wall has been published by the Owens-Corning Fibre Glass Corporation. Pouring-type Fiberglas Cavity Wall Insulation for use in the SCR (Structural Clay Research) Insulated Cavity Wall has been developed by Owens-Illinois Fiberglas Corporation. After extensive studies and tests conducted by the Structural Clay Products Research Foundation, Fiberglas pouring-type Cavity Wall Insulation was found to be the only effective insulation in this type of economical cavity wall construction. The new-type Fiberglas insulation is used in the SCR Insulated Cavity Wall because it was found to have good thermal resistance, a low enough density to support its own weight without settling, and for its ability to resist moisture. 4 pages illus., 9/51.

364. MULSOMATIC FLOORING. The advantages of resilient asphalt mastic floors are discussed in Mulsomatic Flooring, an illustrated publication recently released by the Tremco Manufacturing Company. Mastic flooring provides warmth resilience

for employee comfort; is water, fire, acid and vermin resistant and wears for long periods at exceptionally low cost, according to Tremco. Although Mulsomatic is capable of withstanding heavy traffic over a considerable period of time, it is actually a lightweight topping that does not burden the underpinning, according to manufacturers. It is widely used as an inexpensive underlayment for asphalt tile and other resilient tile. A.I.A. 23-D, four pages illus., 10/51.

365. METAL PROTECTION & PAINT BONDING. A catalog published by the American Chemical Paint Company covers the processes they have developed to protect metals against corrosion. A complete index of the chemicals produced as to type and their applications to the commonly used industrial metals is shown. The purpose of the chemicals, characteristics, advantages and effectiveness are briefly described throughout the catalog. A.I.A. 15-E, eight pages illus., 9/51.

366. MASONITE HARDBOARDS. This catalog has been released by the Masonite Corporation as a guide for the application and finishing of Masonite Hardboards as they are used in building construction and remodeling. All of the more general or common applications have been covered. Some of the uses shown are for siding, underside of eaves, porch ceilings, shutters, cabinets, interiors, built-in furniture, floors, store fronts, displays, fair buildings, work surfaces, interior walls, wainscots, doors, portable partioning. The divisions of the catalog also cover product description, physical properties, working, bending, fastening, cabinet details finishing, joint treatments, underlayment, exterior siding, conditioning, concrete form presdwood and architectural specifications. A.I.A. 23-L, twenty-four pages, 11/51.

367. RECTANGULAR STEEL BRIDGE FLOORING. Kerlow Steel Flooring Co. announces that its latest, up-to-the-minute, comprehensive folder on new IQ-35 Steel Bridge Flooring is just off the press and is available to bridge engineers and to others who wish information about this newest and most recent improvement in steel bridge flooring. This latest development by Kerlow, whether laid longitudinally or transversely on a bridge, will carry H20 loading (highway load of 20 tons) on a 15" circle (on an area this small to point up strength of flooring) up to a span of 48" and weighs approximately 19 lbs., (weight per square foot of grating). A special red paint, with which the grating is finished, wos developed for use on IQ-35 by one of the largest paint companies in the United States. IQ-35, four pages illus., 10/51.

368. STAINLESS STEEL IN ARCHITECTURE. In answer to numerous requests from architects for further construction applications of stainless steel, a new booklet, "How and Where to Specify Stainless Steel in Architecture," has just been published by the Committee of Stainless Steel Producers of American Iron and Steel Institute. A companion book to the Committee's previous publication, "Architectural Uses of the Stainless Steels," released a year ago, the new booklet lists almost 300 different construction applications of stainless, ranging from air conditioning ducts to show windows. It also provides information on some 20 different groups of fabricated stainless products ready for installation, as well as data on the most usual types of stainless for architecture, and details on stainless forms and finishes available from steel mills. In addition to these technical facts on stainless, the new publication also includes for the architect and construction engineer a specification guide. This section discusses in detail recommendations for good practice in handling stainless by metal contractors. A.I.A. 15-H-1, twenty pages illus., 12/51.

369. REMOTAIRE ROOM CONDITIONER. A new remote type room air conditioner for multiple installation that provides both summer cooling and winter heating is described in a catalog by American Radiator & Standard Sanitary Corporation. Called the Remotaire, it is designed for installation in office buildings, apartment houses, hotels, motels, hospitals and residences. Connected to centrally located water heating and cooling plants, this new unit offers individual control of temperature in every room without affecting adjoining spaces. A.I.A. 30-F-1-2, twenty-four pages illus., 2/52.

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367	368	369	

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ANNUAL EDUCATION LECTURES PRESENTED BY THE PUGET SOUND CHAPTER OF THE AMERICAN SOCIETY FOR METALS

Reported by L. F. Franz, Boeing Airplane Company

The Puget Sound Chapter of the American Society for Metals presented its second session of the Annual Educational Lectures recently. The lectures were presented in the form of an open panel discussion on "Surface Treatments and Finishes for Metals" with Professor J. A. Finley, University of Washington as Moderator.

The first speaker, C. B. Holder of Eagle Metals Company, spoke on "Copper and Nickel Base Alloys." Holder gave a short history of the production and development of nickel and the problems encountered by the early smelters who thought the ore was copper. Holder also discussed the properties of copper and nickel alloys, corrosion resistance being the most important, and the effect of various surface finished on these properties. These metals are also used as coatings and cladding on other materials.

The second speaker, Dr. Earl T. Hayes, Chief, Physical Metallurgical Section, Bureau of Mines, Albany, Oregon, discussed "Surface Treatments and Finishes for Titanium and Zirconium and Their Alloys." Dr. Hayes first discussed the method of producing and purifying these metals and then discussed several of the problems involved in machining, grinding, drilling, cleaning, and welding these metals and their alloys. They have excellent corrosion resistance due to a very thin, colorless tight oxide film. Other materials cannot be plated onto titanium and zirconium because of this oxide film and titanium cannot be plated onto other metals. These metals can be welded by heliarc, butt welding, and spot and seam welding methods but cannot be welded by other standard welding methods.

REPRESENT J. R. SMITH MFG. CO.

The Jay R. Smith Mfg. Co. of Union, New Jersey, has announced the appointment of the Kiener Company, Los Angeles, as their West Coast representative.

Appointment of the Kiener Company makes representation of the J. R. Smith line of Chair Carriers, Drains, Grease Interceptors, Roof Couplings, Frost Proof Wall Hydrants, Deck Plugs, Slop Sink Accessories, and Floor Level Cleanouts national in scope.

ARCHITECTURAL PARTNERSHIP IS ANNOUNCED

Announcement has been made of the formation of the new architectural partnership of Charles E. Butner, A.I.A., Wallace J. Holm, A.I.A., and John

(See page 43)

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor & Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.

Glazed Structural Units—

Clear Glazed—	
2 x 6 x 12 Furring	$1.60 per sq. ft.
4 x 6 x 12 Partition	1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition	2.25 per sq. ft.
For colored glaze add	.30 per sq. ft.

Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Cartage—Approx. $10.00 per M.
Paving—$75.00.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll	$5.30
2 ply per 1000 ft. roll	7.80
3 ply per 1000 ft roll	9.70
Brownskin, Standard 500 ft. roll	6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll	7.00

Sheathing Papers—

Asphalt sheathing, 15-lb. roll	$2.00
30-lb. roll	2.79
Dampcourse, 216-ft. roll	2.95
Blue Plasterboard, 60-lb. roll	5.10

Felt Papers—

Deadening felt, ¾-lb., 50-ft. roll	$3.23
Deadening felt, 1-lb.	3.79
Asphalt roofing, 15-lbs.	2.00
Asphalt roofing, 30-lbs.	2.79

Roofing Papers—

Asphalt Rfg., 15 lb.	$2.09
Standard Grade, 108-ft. roll, Light	1.87
Smooth Surface, Medium	2.18
Heavy	2.56
M. S. Extra Heavy	2.96

BUILDING HARDWARE—

Sash cord com. No. 7	$2.65 per 100 ft.
Sash cord com. No. 8	3.80 per 100 ft.
Sash cord spot No. 7	3.65 per 100 ft.
Sash cord spot No. 8	3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.	
1-Ton lots, per 100 lbs.	$3.75
Less then 1-ton lots, per 100 lbs.	$4.75
Nails, per keg, base	$11.80
8-in. spikes	11.80
Rim Knob lock sets	1.80
Butts, dull brass plated on steel, 3½x3½	.76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—

Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
Per Sack, small quantity (paper)—$1.05
Carload lots, in bulk per bbl.—2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Medusa White: 1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards*	$12.00
10 to 100* yards	11.00
100 to 500 yards	10.50
Over 500 yards	10.30

* Delivered to site.

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	—	.60

Haydite Aggregates—

¾-inch to ⅜-inch, per cu. yd.—$7.25
⅜-inch to ⅛-inch, per cu. yd.—7.25
No. 6 to 0-inch, per cu. yd.—7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock, will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings: $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd.—$2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	¾x2¼	½x2	¾x2	1x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
¾ x 2¼	390.00	381.00
¾ x 2¾	375.00	355.00
¾ x 3¼	395.00	375.00
¾ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

¾ x 2¼ First Grade	$390.00
¾ x 2¼ 2nd Grede	365.00
¾ x 2¼ 2nd & Btr. Grade	375.00
¾ x 2¼ 3rd Grade	240.00
¾ x 3¼ 3rd & Btr. Jtd. EM	380.00
¾ x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grede	400.00
33/32 x 2¼ 2nd Grede	360.00
33/32 x 2¼ 3rd Grede	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Glass	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Glass	.64 per □ ft.
⅛ in. Obscure Glass	.40 per □ ft.
3/32 in. Obscure Glass	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glazing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less then 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness
(3⅞") ..... $95.50 per M sq. ft.
Siseletion Aluminum Insulation—Aluminum coated on both sides..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Delvd.
V.G.-D.F. 8 & 8tr. 1 x 4 T & G Flooring..	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-S1S $170.00
½-inch, 4.0x8.0-S1S 250.00
¾-inch, per M sq. ft. 315.00
Plyscord ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shekes—½" to ¾" x 24/26 in handsplit tepered or split resewn, per square..... $15.25
¾" to 1¼" x 24/26 in split resewn, per square 17.50
Average cost to lay shekes,— 8.00 per square
Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diemond, 3.40, Copper Bearing, LCL, per 100 sq. yds..... $43.50
Standard Ribbed, ditto..... $47.50

MILLWORK—Standard.

D. F. $150 par 1000. R. W. Rustic $175 per 1000 (deliverad).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patant screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, per linaal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.
For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Three-coat work ..... per yard $1.10
Cold water painting..... per yard 25c
Whiteweshing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Wholesale Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (50ft - Paste)

Net Weight Packages	List Price per 100 lbs.	Price Pr. per pkgs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*.....	33.35	1.34	31.25	1.25
1-lb. cans*.....	36.00	.36	33.75	.34
500 lbs. (one delivery)	¾c per pound less than above.			

*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead —Red Lead in Oil

Price to Painters—Price Per Products	100 lbs.	50 lbs.	25 lbs.
Dry White Lead.....	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

8-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster.....	$3.00
Keene cement on metal lath.....	3.50
Ceilings with ¾ hat roll channels metal lath (lathed only)	3.00
Seilings with ¾ hat roll channels metel lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only).....	5.75
4-inch double partition ¾ channel lath 2 sides plestered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plestered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermex nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermex suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yerd.
Processed LLilme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
⅝"—29c per sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply—$11.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square..... $18.25
5/2 No. 1 Ceder Shingles, 5 in. exposure, per square..... 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposura, per square.. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per square..... 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resewn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resewn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton..... $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M..... $240.00
Standard, 8-in. per M..... 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft..... $1.25
Vented hip skylights, per sq. ft..... 2.25
Aluminum, puttyless, (unglazed), per sq. ft..... 1.25
(installed and glazed), per sq. ft... 1.85

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock

STEEL REINFORCING—

$200.00 per ton, in place.
¼-in. Rd. (Less than 1 ton)..... $8.40
⅜-in. Rd. (Less than 1 ton)..... 7.30
½-in. Rd. (Less than 1 ton)..... 7.00
⅝-in. Rd. (Less than 1 ton)..... 6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton).. 6.65
1-in & up (Less than 1 ton)..... 6.60
1 ton to 5 tons, deduct 25c.

STORE FRONTS (None available).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphelt Tile Floor ⅛" ⅜"..... $ .18 - $ .35 sq. yd.
Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 per sq. ft
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—
8x5½x12-inches, per M..... $139.50
6x5½x12-inches, per M..... 105.00
4x5½x12-inches, per M..... 84.00

Hollow Tile—
12x12x2-inches, per M..... $146.75
12x12x3-inches, per M..... 156.85
12x12x4-inches, per M..... 177.10
12x12x6-inches, per M..... 235.30
F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction meterials ere shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classificetion where neme first appears—mein offices ere shown first with branch or district offices following. The numeral appearing in listings refers to the major group classification where complete dete on the deeler, or representetive, may be found.

ADHESIVES (c)
Well and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(23)
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259

AIR CONDITIONING (b)
Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58, 4851 S. Alameda St.
San Francisco, 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (a)
Ceramic Veneer
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
(Dept. AE-450)
Room 601, Franklin Building, Oakland 12, California
P. O. Box 186, East Pasadena Station, Pasadena 8, California
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market Street, SU 1-6747
Los Angeles 4: DU 2-7834

BANKS-FINANCING (1b)
CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery St's., EX 2-7700

BATHROOM FIXTURES (1c)
Metal
THE CAMBRIDGE TILE MFG. CO. *(23)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(23)

BRASS PRODUCTS (1a)
GREENBERG'S, M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BRICKWORK (1)
Face Brick
GLADDING, McBEAN & CO.*(a)
San Francisco: Harrison at 9th Sts., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Offices at Portland, Seattle, Spokane
KRAFTILE
Niles, California, Nilas 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241
REMILLARD-DANDINI CO.
San Francisco: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (1b)
GREENBERG'S M. & SONS
San Francisco, Calif.: 765 Folsom, EXbrook 2-3143

BUILDING PAPER & FELTS (2)
ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Boulevard
SISALKRAFT COMPANY
San Francisco: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (3)
THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (c)
PACIFIC PORTLAND CEMENT
San Francisco: 417 Montgomery St., GA 1-4100

CONCRETE AGGREGATES (4)
Aggregates
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th & A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., Ph. 8-8643
Fresno: 2150 G. St., 280 Thorne Ave., Ph. 3-5166
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond, Cal.: 26th & B Sts.—Yd. 2, RI 4307

DOORS (4a)
Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St. AD 1-1108
Distributors:
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
T. M. COBB CO.
Los Angeles: & San Pedro
SOUTHWEST SASH & DOOR
Phoenix, Arizone
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN CO.
(See Hollywood Door listing above)

FIRE ESCAPES (5)
MICHEL & PFEFFER IRON WORKS, INC.
South Linden and Tenforen Aves.
South San Francisco: JU 4-8362
SOULE STEEL
San Francisco: 1750 Army St., VA 4-4141
Los Angeles, Calif.—LA 0911
Portland, Ore.—BE 5155
Seattle, Wash.—SE 3010

FIREPLACES (5a)
Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St. PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (6)
Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(a)
KRAFTILE *(23)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(23)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
470 Alabama St., San Francisco, MA. 1-7766
Los Angeles, 923 E. 3rd, TRinity 8282
Seattle, 3440 E. Marginal Way
Diversified (Magnesite, asphalt tile, composition, etc.)
LeROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LeROY OLSON CO.

GLASS (7)
W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Oregon

HEATING (8)
HENDERSON FURNACE & MFG. CO.
Sebastopol, Calif.
S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 No. Broad St.
SCOTT COMPANY
San Francisco: 243 Minne St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
Electric Heaters
ELECTROMODE CORP.
Rochester, N. Y.
San Francisco: 1355 Market St., KL 2-2311
Northern California Distributors
GENERAL ELECTRIC SUPPLY CORP.
San Francisco: 1201 Bryant St., UN 3-4000
Emeryville: 5400 Hollis St., OL 3-4433
Sacramento: 1131 S St., GI 3-9001
Fresno: 1234 O St., Fresno 4-4746
INCANDESCENT SUPPLY COMPANY
Redding: 2146 Pine St., Redding 200
THOMAS B. HUNTER (Designer)
San Francisco: 41 Sutter St., GA 1-1164
UTILITY APPLIANCE CORP. *(b)

INSULATION AND WALLBOARD (9)
LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
SISALKRAFT COMPANY *(2)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Sacramento: 1224 I Street, 2-8993
Stockton: 1120 E. Weber Ave., 4-1863
Fresno: 1837 Merced Street, 3-3277
San Jose: 201 So. Market St., BA 4359-J

IRON—Ornamental (10)
MICHEL & PFEFFER IRON WORKS, INC.* (5)

LANDSCAPE (11a)
Landscape Contractors
HENRY C. SOTO CORPN.
Los Angeles, 13000 S. Avalon Blvd. ME 4-6617

LIGHTING FIXTURES (11)
SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (12)
HOGAN LUMBER COMPANY *(6)
LUMBER MANUFACTURING CO. *(9)
Shingles

MARBLE (13)
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (14)
FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100
SOULE STEEL *(5)

MILLWORK (15)
LUMBER MANUFACTURING COMPANY *(9)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Reusch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles: 6820 McKinley Ave., TH 4196

PAINTING (16)
Paint
W. P. FULLER COMPANY *(7)

PLASTER (17)
Interiors—Metal Lath & Trim
FORDERER CORNICE WORKS *(14)
Exteriors
PACIFIC PORTLAND CEMENT COMPANY*(4)

PLASTIC CEMENT (4)
PACIFIC PORTLAND CEMENT CO.
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (18)
THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio
THE SCOTT COMPANY *(8)
HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341
CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178
SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322
SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

SEWER PIPE (19)
GLADDING, McBEAN & CO. *(1)
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

SHEET METAL (20)
Windows
DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890
MICHEL & PFEFFER IRON WORKS, INC. *(5)
SOULE STEEL COMPANY *(5)
Fire Doors
DETROIT STEEL PRODUCTS COMPANY
Skylights
DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (21)
COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle: 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767
JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building
KRAFTILE COMPANY *(1)
SAN JOSE STEEL COMPANY
San Jose: 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (22)
REPUBLIC STEEL CORP. *(21)
HERRICK IORN WORKS *(21)
SAN JOSE STEEL CO. *(21)
COLUMBIA STEEL CO. *(21)

TILE (23)
THE CAMBRIDGE TILE MFG. CO. *(23)
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800
GLADDING, McBEAN & CO. *(a)
KRAFTILE
Niles, California: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241
PACIFIC CLAY PRODUCTS
San Francisco: 605 Market St., GA 1-3970
Los Angeles, Portland, Salt Lake City

TIMBER—REINFORCING (b)
Trusses
WEYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.
Treated Timber
J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (24)
THE CAMBRIDGE TILE MFG. CO. *(23)
GLADDING, McBEAN & CO. *(1)
KRAFTILE COMPANY *(1)

WINDOWS STEEL (25)
DETROIT STEEL PRODUCTS CO. *(20)
MICHEL & PFEFFER IRON WORKS, INC.*(5)
SOULE STEEL COMPANY *(5)

GENERAL CONTRACTORS (26)
BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161
DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718
CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440
MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516
PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639
STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064
SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver
P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS) (27)
ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53					
BRICKLAYERS	3.25	3.25	3.15	2.85	3.25	3.00	3.00	3.25	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	1.75	1.75	1.75	1.75	1.75
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.20	2.20	2.20	2.20	2.20
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.28	2.28	2.28	2.28	2.28
ELECTRICIANS	2.75	2.60	2.60	2.75	2.50	2.50	2.625	2.60	2.50	2.50	2.50	2.50	2.50
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.00	2.00	2.00	2.00	1.96
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.255	2.255	2.255	2.255	2.255
REINF. RODMEN	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.28	2.28	2.28	2.28	2.28
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.30	2.30	2.2375	2.30	2.30
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.50	2.50	2.50	2.50	2.50
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.40	2.40	2.20	2.40	2.40
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.33	2.33	2.33	2.33	2.33
PLASTERERS	3.00	3.15*	3.15	2.25	3.00	3.00	3.125	3.00*	2.50	2.75	2.50	2.50	2.50
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4325	2.875	2.875	2.50	2.50	2.20	2.50	2.25

* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:
CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

(From page 38)

H. Waterman into the firm of Butner, Holm & Waterman.

Offices of the new firm are located at 1112 Pajaro Street, Salinas, California. They will engage in the general practice of architecture.

ARCHITECTURAL FIRM OPENS SEATTLE OFFICE

Gilbert H. Mandeville, Seattle, has been appointed manager of the new Leo A. Daly Company, Architects & Engineers, offices recently opened in the Securities Building in Seattle. He formerly served in a civilian capacity as Chief Engineer in charge of design for a Navy Engineering Office in Seattle.

Activities of the Daly Company embrace all building fields from industrial, commercial, churches, schools, hospitals, and other types of institutional buildings to heavy engineering projects and radio installations. Headquarters of the firm are in Omaha, Nebraska.

NINE BUILDING PROJECTS FOR U. C. CAMPUSES

Nine University of California building projects, two at Berkeley, two at Davis, and five at Riverside, have been approved by the Federal Office of Education, assuring issuance of construction permits and allocation of critical materials.

Approval of the five Riverside projects, which it is expected will go out for bids soon, assures rapid development of the new College of Letters and Science which will cost in excess of $4,855,000.

REMODEL NEWSPAPER BUILDING

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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

RECTORY, San Francisco. Roman Catholic Archbishop of S. F., owner. St. Thomas More Parish, $74,812. ARCHITECT: Vincent Buckley, San Francisco. 2 story, frame and stucco construction. GENERAL CONTRACTOR: A Berwick & Son, San Francisco.

APARTMENT BUILDING, Oakland, Alameda County. A. Steffensen, Oakland. 52 rooms, $120,000. ARCHITECT: Leonard H. Ford, Walnut Creek. 2 story, frame & stucco construction. GENERAL CONTRACTOR: Metropolitan Builders, Oakland.

PLUMBING SUPPLY BUILDING, Los Angeles, Los Angeles County. J. D. Ross & Sons, owner. $50,000. ARCHITECT: W. Douglas Lee & D. Everett Lee, Los Angeles. 65 x 300 ft., reinforced concrete tilt-up walls, wood frame, plaster front, wood trusses, composition roofing, skylights, slab floor, steel sash, masonry veneer, radiant heating & suspended heaters, asphalt tile. GENERAL CONTRACTOR: W. Douglas Lee, Inc., Los Angeles.

ADDITION TO PROSPECT SCHOOL, Hermosa Beach, Los Angeles County. Hermosa Beach City School District, owner. 3 classrooms, kindergarten, toilet facilities, administration office, $141,667. ARCHITECT: Kistner, Curtis & Wright, Los Angeles. 1 story, frame & stucco construction, composition roof, concrete floor, asphalt tile, wood sash. GENERAL CONTRACTOR: James M. Dye, Gardena.

NORTH PRIMARY SCHOOL, Lennox, Los Angeles County. Lennox School District, owner. 12 classrooms, administration unit, kindergarten, multi-purpose unit, $377,887. ARCHITECT: Kistner, Curtis & Wright, Los Angeles. Frame & stucco, 1 story, 22,000 sq. ft., composition roofing, concrete floor, asphalt tile, wood sash. GENERAL CONTRACTOR: A. J. Marek, South Gate.

ALICE BIRNEY ELEMENTARY SCHOOL, San Diego, San Diego County. San Diego Unified School District, owner. 4 wood frame units, 14 classrooms, assembly cafeteria, administration building, $346,436. ARCHITECT: Clyde Hufbauer, San Diego. Frame & stucco construction, steel sash, steel roof trusses, composition roofing, terrazzo and marble, asphalt tile, forced air and hot water heating, air conditioning. GENERAL CONTRACTOR: L. C. Anderson, San Diego.

CENTRAL ELEMENTARY SCHOOL, Imperial Beach, San Diego County. South Bay Union School District, owner. 4 classrooms, kindergarten, kitchen, 6,000 sq. ft., $145,800. ARCHITECT: Paderewski, Mitchell and Dean, San Diego. Reinforced brick construction, builtup gravel roof, slab and asphalt tile flooring, radiant heating, metal lath, reinforcing steel, steel sash, wood roof trusses. GENERAL CONTRACTOR: R. J. Hortie, San Diego.

LAKESIDE ELEMENTARY SCHOOL, Hanford, Kings County. Lakeside Union Elementary School District, owner. 13 classrooms, administration, kindergarten, special activities room, multi-purpose, kitchen and toilet rooms, $395,793. ARCHITECT: Robert C. Kaestner, Visalia. 1 story, 26,550 sq. ft., frame & stucco construction, concrete asphalt tile floors. GENERAL CONTRACTOR: Midstate Construction Co., Fresno.

LOW RENT HOUSING PROJECT, San Pablo, Contra Costa County. Housing Authority of the City of San Pablo. 100 units, $614,000. ARCHITECT: John C. Warnecke, San Francisco. 1 & 2 story, frame & stucco construction, some redwood exterior. GENERAL CONTRACTOR: E. Phillip Merrit, Inc., San Rafael.

LINCOLN ELEMENTARY SCHOOL, Hanford, Kings County. Hanford Elementary School District, owner. 14 classrooms, administration, multi-purpose, kitchen & toilet rooms, $405,800. ARCHITECT: Horn & Mortland, Fresno. Frame & stucco construction, steel sash, radiant heating. GENERAL CONTRACTOR: Trewhitt, Shields & Fisher, Fresno.

COUNTY HEALTH CENTER, Hanford, Kings County. County of Kings, owner. $120,717. ARCHITECT: Horn & Mortland, Fresno. New health center building, administration office, clinic rooms, etc. GENERAL CONTRACTOR: Oppenheim & King, Fresno.

NEW JR. HIGH SCHOOL BUILDING & NEW ELEMENTARY SCHOOL BUILDING, Chico, Butte County. Chico Board of Education, owner. 2 classrooms, wings, administration, library, locker room, gym & toilet rooms & site work; 4 classrooms, shop, multi-purpose, kitchen, locker, corridor & toilets, $1,380,300. ARCHITECT: Lawrence G. Thompson. 1 story, frame & stucco construction. GENERAL CONTRACTOR: Ellis W. Barker, Salt Lake City.

OFFICE & WAREHOUSE BUILDING, Vernon, Los Angeles County. Los Angeles Transportation Co., owner. 1 story, $109,000. ARCHITECT: McClellan, MacDonald & Markwith, Los Angeles. Panelcrete wall construction, 125 x 160, dock height floor, composition roofing, wood trusses, overhead doors, conrete floor, steel sash, forced air heating, asphalt tile. GENERAL CONTRACTOR: Buttress & McClellan, Inc., Los Angeles.

SAFEWAY MARKET BUILDING, San Francisco. Bramwell Construction Co., owner. $300,000. ARCHITECT: Joseph & Joseph, San Francisco. 1 story & basement, 120 x 185, concrete block & brick veneer, wood roof, wood trusses. GENERAL CONTRACTOR: MacDonald, Young & Nelson, San Francisco.

THEATRE BUILDING, Pacific Grove, Monterey County. Golden Gate Theatre & Realty Corps, owner. 100 seats, $100,000. ARCHITECT: A. A. & A. McKenzie Cantin, San Francisco; fire rebuild, reinforced concrete, and wood roof trusses. GENERAL CONTRACTOR: Salih Bros., San Francisco.

CHURCH, San Jose, Santa Clara County. Roman Catholic Archbishop of S. F., owner. St. Martins Parish, $150,000. ARCHITECT: Vincent G. Raney, San Francisco. Frame construction. GENERAL CONTRACTOR, Elmo W. Pardini, San Jose.

PARISH HALL, Carmichael, Sacramento County. Roman Catholic Diocese of Sacramento, owner. Our Lady of Assumption, $61,986. ARCHITECT: Chas. F. Dean, Sacramento; frame and stucco construction. GENERAL CONTRACTOR: Guth & Schmidt, Sacramento.

SCHOOL BUILDING, Niland School District of Imperial County, owner. 9 classrooms, multi-use room, administrative unit, $309,450. STRUCTURAL ENGINEERS: Bowen, Rule & Bowen, Los Angeles. Concrete frame construction, vermiculate gunite walls, wood roof, composition roofing, cement slab, asphalt tile floors, steel sash, radiant heating, insulation. GENERAL CONTRACTOR: Sooy & Jackson, Redlands.

CENTRAL FIRE STATION, Redwood City, San Mateo County. County of San Mateo, owner. $149,041. ARCHITECT: Furber Libby, Palo Alto. 1 and 2 story, frame and stucco construction. GENERAL CONTRACTOR: Arthur Bros., San Mateo.

FRUIT RIDGE GRAMMAR SCHOOL, Sacramento, Sacramento County. Fruitridge Elementary School District, owner. 8 classrooms, administration, multi-purpose, kitchen and toilet rooms, $326,940. ARCHITECT: Chas. F. Dean, Sacramento, frame and stucco construction. GENERAL CONTRACTOR: United Construction Co., Sacramento.

OAK KNOLL ELEMENTARY SCHOOL, Menlo Park, San Mateo County. Menlo Park Elementary School District, owner. 8 classrooms, administration, kindergarten, toilet rooms, multi-purpose room, $248,150. ARCHITECT: Kingsford Jones, Menlo Park. Frame and stucco construction. GENERAL CONTRACTOR: Sibley G. & T. Co., San Francisco.

SEWAGE TREATMENT PLANT, Folsom, Sacramento County. City of Folsom, owner. $131,908. STRUCTURAL ENGINEER: L. Cedric Macabee, Palo Alto, reinforced concrete construction. GENERAL CONTRACTOR: Affiliated Engineers and Contractors, Sacramento.

WAREHOUSE & OFFICE BUILDING, San Jose, Santa Clara County. Cobbledick-Kibbee Glass Co., owner. 1 story and mezzanine, approximately 12,000 sq. ft., $72,250. STRUCTURAL ENGINEER: Wm. D. Lotz, San Jose, reinforced concrete and frame construction. GENERAL CONTRACTOR: Geo. J. Lauer, San Jose.

LORNE SCHOOL BUILDINGS, Reseda, Los Angeles County. Los Angeles Board of Education, owner. Eight 1 story buildings, $168,875. ARCHITECT: A. S. Nibecker, Jr., Los Angeles, frame and stucco buildings. GENERAL CONTRACTOR: Wm. H. Maddox, Burbank.

NEW NORTHSIDE GRAMMAR SCHOOL, Ukiah, Mendocino County. Ukiah Elementary School District, owner. 12 classrooms, administration, kindergarten, multi-purpose, kitchen and toilet rooms, $396,536. ARCHITECT: ———. Frame and stucco construction. GENERAL CONTRACTOR: M. R. Crane, San Francisco.

STORES & APARTMENTS, East Los Angeles,, Los Angeles County. Angeleo Falzone, owner. 1 and part 2 story, 8,000 sq. ft., $70,000. Frame and stucco construction, composition roofing, cement and wood floors, gas wall heaters. DRAWINGS by Robert C. Taylor, Southgate.

OFFICE BUILDING, Los Angeles, Los Angeles County. Southern California Water Co., owner. 2 story, 13,718 sq. ft., $142,000. ARCHITECT: Hugh Gibbs, Long Beach. Frame and stucco construction, brick veneer, composition roofing, steel sash, concrete slab, forced air heating. GENERAL CONTRATOR, Sam M. Duff, Long Beach.

TELEPHONE EXCHANGE BUILDING, Scottsdale, Arizona. Mountain States Telephone and Telegraph Co., owner. 1 story and

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basement, 15 rooms, $115,000. ARCHITECT: Lescher & Mahoney, Phoenix. Masonry construction, composition roofing, linoleum, asphalt tile floors, air conditioning, insulation, steel sash, acoustic tile, metal doors. GENERAL CONTRACTOR: William Peper Construction Co., Phoenix.

NEW NORTH OF RIVER HIGH SCHOOL, Oildale, Kern County. Kern County Union High School District, owner. Administration, classrooms, home-economics, library, science, music, cafeteria, boys and girls gym, shop building, auditorium, $2,748,157. ARCHITECT: C. B. Alford & W. J. Thomas, Bakersfield. STRUCTURAL ENGINEER, Hillman & Newell. MECHANICAL ENGINEER, Chester Walz, Los Angeles. ELECTRICAL ENGINEER, Albert Byler, Los Angeles. Concrete block and brick construction, steel roof trusses, steel sash, asphalt tile. GENERAL CONTRACTOR, Guy F. Hall, Bakersfield.

APARTMENT BUILDING, Hollywood, Los Angeles County. Bernard Friedman, owner. 138 room, 50 unit, $410,000. ARCHITECT: Louis Selden, Los Angeles, frame and stucco construction, reinforced conocrete basement and garage, 226 x 214 ft., composition roofing, oak and linoleum floors, steel sash, composition stairs, tiled baths, drainboards, forced air heating. OWNER BUILDS.

ADD. TO FACTORY BUILDING, Los Angeles, Los Angeles County. Electrical Engineering & Mfg. Co., owner. 50 x 125 ft., $60,000. STRUCTURAL ENGINEER: Leonard H. Gowdy, San Marino. Reinforced brick walls, composition roofing, cement slab floor, steel sash. GENERAL CONTRACTOR: Herman B. Bieek, Burbank.

FACTORY BUILDING, West Los Angeles, Los Angeles County. Lear Inc., owner. 1 story, 70,000 sq. ft., $397,000. ARCHITECT: John McNitt, Los Angeles, masonry construction, concrete slab floors, composition board movable partitions, frame and stucco interior partitions, wood roof trusses, asphalt tile, acoustical tile ceilings. GENERAL CONTRACTOR: Belmont G. Beck, West Los Angeles.

LOW RENT HOUSING PROJECT, Shafter, Kern County. Housing Authority of Kern County, owner. 35 units, $232,000. ARCHITET, Whitney Biggar, Bakersfield. Frame and stucco, insulation, concrete floors, asphalt tile, steel sash, utilities. GENERAL CONTRACTOR, Fred S. Macomber, Los Angeles.

C. W. HAMAAN ELEMENTARY SCHOOL, Santa Clara, Santa Clara County. Santa Clara Elementary School District, owner. 6 classrooms, administration, kindergarten, and toilet rooms, $205,839. ARCHITECT: L. F. Richards, Santa Clara. Frame and stucco construction. GENERAL CONTRACTOR, O. E. Anderson, San Jose.

NEW CITY HALL BUILDING, Palo Alto, Santa Clara County. City of Palo Alto, owner. 1 story, 23,000 sq. ft., $345,643. ARCHITECT, Leslie I. Nichols, Palo Alto. Aluminum sash, concrete floor, brick and frame construction, shake roof, asphalt and cork tile floors, radiant heating, plywood and brick interior, acoustical ceilings. GENERAL CONTRACTOR, Ralph Larsen & Son, San Francisco.

OFFICE BUILDING, West Los Angeles, Los Angeles County. Atlas Investment Carp., owner. 2 story, 65 x 42 ft., $50,000. ARCHITECT, Rowland H. Crawford, Beverly Hills. Frame and stucco construction, composition roofing, cement, wood linoleum and asphalt tile floors, brick trim, steel sash, forced air heating. OWNER BUILDS.

SCHOOL BUILDING SITE No. 3—Paramount, Los Angeles County. Paramount School District, owner. Administration unit, kindergarten, cafetorium, library, 12 classrooms, $312,000. ARCHITECT: Allison & Rible, Los Angeles. Frame and stucco construction, composition roofing, cement and asphalt tile floors, metal sash, metal doors, interior plaster, structural steel, masonry work. GENERAL CONTRACTOR, Oppert & Forsberg, Gardena.

NEW GRAMMAR SCHOOL, Los Banos, Merced County. Los Banos Elementary School District, owner. 6 classrooms, administration, multi-purpose room, kitchen, toilet rooms, addition to existing school, shop, sewing, heater room and toilet rooms, $299,160. ARCHITECT, Chas. E. Butner, Salinas. Frame and stucco coonstruction. GENERAL CONTRACTOR: T. Falasco, Los Banos.

WAREHOUSE BUILDING, Gilroy, Santa Clara County. Filice & Perrelli Canning Co., owner. 1 story, 150 x 200, $97,743. STRUCTURAL ENGINEER, MacPerkins, San Francisco. 1 story, 150 x 200. Frame and corrugated steel exterior, plywood interior, concrete floors and foundations. GENERAL CONTRACTOR, Howson Bros., Gilroy.

LOW INCOME HOUSING PROJECT, Wasco, Kern County. Housing Authority of the County of Kern, owner. 25 units, $153,250. ARCHITECT, Alford & Thomas, Bakersfield.

FACTORY BUILDING, Burbank, Los Angeles County. Hydro-Aire, Inc., owner. 2 story, 150 x 150 ft., $275,000. STRUCTURAL ENGINEER, F. Thomas Collins, San Gabriel. Reinforced concrete, tilt-up construction, composition roofing, steel sash, concrete slab, asphalt tile floor. GENERAL CONTRACTOR, H. M. Keller Co., Burbank.

DELTA & WILDE SCHOOL, San Francisco. City and County of San Francisco, owner. Administration, multi-purpose, kitchen and toilet rooms, $299,800. ARCHITECT, Alfred W. Johnson, San Francisco. Reinforced concrete construction. GENERAL CONTRACTOR, M & K Corp., San Francisco.

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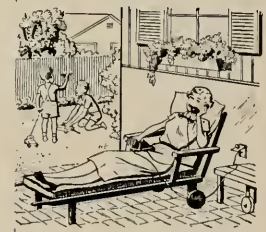

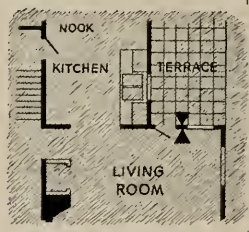

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IN THE NEWS

FACTORY SITE PURCHASED

The Screw Conveyor Corporation of Hammond, Indiana, has acquired a new site in the Pasetta Industrial Tract near the city of Santa Clara.

According to Russell B. Maas, president of the company, a new factory will be constructed on the property in the immediate future.

NEW HOSPITAL FOR EUREKA

Architect Frank T. Georgeson, San Francisco, has completed drawings for the construction of a new 75-bed hospital at Eureka, California.

Constructed for the Sisters of St. Joseph, Orange, California, the new hospital is to be a three story building with basement and is estimated to cost $1,250,000.

LOS ANGELES FIRM GRANTED FRANCHISE

The firm o McClure & Erickson Corpn. Los Angeles, has been granted a franchise to manuacture Permalite products, according to a recent announcement by Edward A. Harris, operation manager of the Perlite Division, Great Lakes Carbon Corpn., Los Angeles.

Installation of furnaces and other equipment is being completed and finished products will soon be available, for distribution in the Southern California areas.

ARCHITECT SELECTED

The architectural firm of Mayo & Johnson, Stockton, have been commissioned by the Lodi (California) Elementary School District to draft plans for a three classroom addition to the Meedham Eelementary School in Lodi.

The addition will be of frame and stucco constructon.

LOW INCOME HOUSING

The Housing Authority for the City of Richmond, California, have received plans and specifications for the construction of a 300 unit Low Income Housing Project, and contemplate the start of construction immediately.

Architect Donald L. Hardison, Oakland, was commissioned to design the project which will cost approximately $2,000,000.

SCHOOL BONDS VOTED

The Analy Union High School District of Sebastopol (California) has chosen Architect J. Clarance Felciano of Santa Rosa, to draft plans and specifications for the construction of an addition to the Sebastopol High School.

Some $990,000 has been made available for the project by passage of a bond election.

ARCHITECTS HOLD OPEN HOUSE

David H. Horn, A.I.A., and Marshall D. Mortland, A.I.A., associate architects of Fresno (California), recently held an open house in conjunction with the opening of their new offices at 1256 Fulton Street in Fresno.

A special exhibit entitled "Fine Arts Gallery" was shown which emphasized educational and public buildings, residences, and architectural and allied arts.

The exhibit remained open to public inspection for four days following observation of the "open house" festivities.

DESIGNER ADDRESSES LOS ANGELES ART CLASS

William Mitchell, director of design for the Harley Earl Corpn. of Detroit, industrial designers, was the principal speaker at the recent graduating class of the Los Angeles Art Center School.

Speaking to more than 300 students, Mitchell sketched a picture of unlimited opportunities prevailing in the field of industrial design, illustration and fine arts.

"The role of a designer is one of constantly increasing importance to industry," Mitchell declared, "and the opportunity for achievement for those with design talents appears to be greater than those afforded by almost any other skilled profession."

Mitchell further pointed out that graduates of such art schools are dispersed throughout leading industries throughout the nation.

GENERAL CONTRACTORS DISSENT FROM WSB POLICY

The Associated General Contractors of America have registered public disapproval of the recent Wage Stabilization Board approved policy governing health and welfare regulations for the construction industry.

Contractor officials claim any policy by the federal government which offers welfare and health payments above allowable wage increases tends to destroy local collective bargaining, and to force upon the industry in all areas unknown welfare plans regardless of the burdens or impracticabilities encountered.

PASADENA PLANT ENLARGES CAPACITY

Construction of a 5,000 sq. ft. addition to the Associated Mfg. Co. plant at Pasadena, California has been announced by Harry Naiman, production manager and co-owner of the plant.

Total area of the plant will be 27,000 sq. ft. with completion of the addition.

ENGINEER JOINS PHOENIX FIRM

Arthur H. Beard, Jr., has resigned as district engineer of the Pima County (Arizona) Sanitary District No. 1, to become associated with Headman, Ferguson & Carollo, Phoenix consulting engineers.

YOUTH AUTHORITY RECEPTION CENTER

Architect Claud Beelman of Los Angeles has completed drawings for the construction of a new California Youth Authority Reception Center to be built near Sacramento.

The project will comprise thirteen buildings and will cost an estimated $2,500,000.

FIRST WEST COAST MBA CONFERENCE

For the first time in its educational program, the Mortgage Bankers Association of America will sponsor a mortgage banking seminar on the West Coast with a meeting at Stanford University, August 18-22, Aubrey M. Costa, Association president, has announced.

The seminar will take the student through all the operations and procedures in the mortgage banking field, including the various lending and appraising processes.

California committees in charge of arrangements will be headed by Willis R. Bryant, assistant vice president American Trust Company, San Francisco, and Dr. J. Hugh Jackson, dean of the Graduate School of Business Administration at Stanford University.

ELECTRONIC FIRM IN NEW PLANT

The West Coast Electronics Co., Los Angeles, is constructing a new building for immediate occupancy.

The two-story, reinforced concrete structure has been designed by Robert H. Gwynn, structural engineer.

NEW PLANT FOR RICHMOND

The Standard Oil Company of California has announced plans for the construction of a new Synthetic Phenol Plant at Richmond.

Cost of the new plant will exceed $4,000,000 according to company officials.

NAMED DIRECTOR OF RESEARCH INSTITUTE

Dr. Judson Swearingen, nationally known for his work in uranium plant construction during the war, has been named Director of Petroleum Technology for Southwest Research Institute, San Antonio, Texas, according to a recent announcement by Dr. Harold Vagtborg, Institute president.

Both a chemical and mechanical engineer, he has had experience in sanitary engineering, tonnage oxygen units, evaluation of processes, development programs in the fields of petro-chemicals, special cements for oil well purposes, and adaptation of processes and equipment to conditions in foreign countries.

ARIZONA GENERAL CONTRACTORS MEET

At the recent Annual meeting of the Arizona Chapter of the Associated General Contractors of America, R. M. Makemson of Wallace & Wallace, contractors, Phoenix, was elected president; W. E. Naumann, M. M. Sundt Construction Co., Tucson, vice-president; E. O. Earl of the San Xavier Rock & Sand Company, Tucson, was re-elected director for a three year term, and R. W. Markam, Phoenix-Tempe Stone Co., and W. J. Henson were named directors.

ARCHITECT OPENS NEW OFFICES

William Corlett, A.I.A., and Peter H. Skaer, architect associate, recently announced the opening of offices at 347 Clay Street, Saan Francisco, for the general practice of Architecture.

BUILDING CONCERN IN NEW QUARTERS

The J. A. McNeil Company, Inc., general contractors, have moved into their new building on West Mission Road in Alhambra. The structure is of reinforced concrete and concrete masonry and contains 6000 sq. ft. with executive and administrative offices and conference room.

McNeil, past president of the Southern California Chapter, Associated General Contractors of America, is a member of the California State License Board.

NEW VENTURA HIGH SCHOOL

The architectural firm of Daniel, Mann, Johnson & Mendenhall of Los Angeles, have been named by the Ventura Union High School, board of trustees, to design a new Anacapa Junior High School to be built in Ventura at a cost of $1,300,000.

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The school will be built on a 20-acre tract and will accommodate 750 students.

NATIONAL BUREAU OF STANDARDS NEW PLANT

Plans for new laboratories especially designed for advanced research in the field of electronics and radio have been prepared for the National Board of Standards by Pereira and Luckman and J. E. Stanton, Los Angeles, architects and engineers, with Robert W. Ditzen of Boulder, associate architect.

A Congressional appropriation of $4,955,000 has been allocated or the new facility which is to be located at Boulder, Colorado. In addition to laboratories, the unit will cover 191,611 sq. ft.

SPRING MEETING SET FOR UNIVERSITY OF ARIZONA

The Arizona Section of the American Society of Civil Engineers will hold their spring meeting in the new Student Memorial Union Building on the University of Arizona campus on April 26th.

Scheduled for the meeting is a discussion of structural features of the building, irrigation development along the Colorado River, and three student papers.

RICHMOND VOTES HIGH SCHOOL BONDS

Voters of the Richmond Union High School District recently approved a school bond issue of $7,000,000 for the construction of a new Junior High School and a new Senior High School.

The two new high schools are to be constructed in the city of Richmond.

At the same time another project of $5,000,000 for construction of a new Elementary School and additions to the present elementary schools was approved by the voters and school bonds will be issued.

ARCHITECT HONORED

Pietro Belluschi, dean of the School of Architecture and Planning at Cambridge, Mass., and prominent Portland, Oregon, architect, has been chosen one of the outstanding, authoritative contributors to the American Peoples Encyclopedia Year Book for 1951.

NAMED PRESIDENT NEW ORGANIZATION

Warren Gram, Pasadena, has been elected president of the newly organized California Shake and Shingle Association.

Other officers named include Hugh Mason, South Pasadena, vice-president; and Will Freeny of Los Angeles, secretary-treasurer.

ARCHITECTURAL SCALE MODEL FIRM ENLARGES

Stuart D. King, formerly of the Cowlesville Mfg. Co., has joined with Harry C. Kline Associates of Buffalo, New York.

The firm specializes in the manufacture of architectural scale models.

LOW BIDDER ON ALASKA PROJECT

J. B. Warrack of Seattle was low bidder on construction of a cold storage building for the Alaska Defense at Elmendorf Air Force Base.

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ARTHUR D. JANSSEN, ARCHITECT

MAY 1952

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Vol. 189 No. 2

ARCHITECTS' REPORTS—Published Daily

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Book Reviews

★

COVER PICTURE

MENLO ATHERTON HIGH SCHOOL

Arthur D. Janssen & Associates, Architects

Sequoia Union High School District, Dr. Clyde L. Ogden, Superintendent, San Mateo County, California.

Main entrance showing administration wing at left and multipurpose building at right.

Peter Sorensen, Contractor.

For complete details see featured article on page 8.

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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EDITORIAL NOTES

NEW PRIVATE HOMES

Barring unforeseen factors which would alter the present trend, it is predicted that more than 800,000 new private homes will be built throughout the nation this year, representing a slight decline over both 1950 and 1951.

Shifting in types of construction and variations in the defense program as relates to use of metals and materials and points of development, will be the major factors determining the location and extent of residential construction.

The West Coast is looked upon as a favorable area. Many large manufacturing concerns are looking to the West for expanded activities and in a number of instances are selecting new plant locations that automatically result in extensive new home construction projects.

Numerous Federal projects and a continued expansion of governmental and commercial activities in the Pacific Area, will also tend to stimulate private home building on the West Coast.

* * *

For the first time in U. S. history, home owners outnumber renters, the National Association of Home Builders reports. The mid-century mark reveals owners occupying over half—53%—of all homes. In 1890, only one-third of the homes were owner occupied.

* * *

TIME TO DO SOMETHING

There is an old saying that every American citizen faces two certainties, one is death and the other is taxes.

Considerable progress has been, and is being made by the scientist and the medical profession to prolong the span of life of the individual, and to such progress we are all thankful.

But taxes seem to be a different matter.

There is no progress in reducing the amount of taxes to be paid. On the contrary the tax burden becomes greater year after year until now the amount of taxes paid by every individual is an amount so large that few people are able to comprehend the situation, nor its seriousness.

The following, taken from the annual report of but one of the nation's leading industrial firms is quite revealing information of the present tax situation:

> During 1951, the taxes extracted from industry and individuals alike reached the danger point. Corporate income and excess profit taxes have become a matter of grave concern to all stockholders. There is bleak significance in the fact that in 1951 the consolidated income tax of your Company was more than two and one half times ($50,000,000 tax this year as against a $30,000,000 tax last year) the amount paid to stockholders in dividends.
>
> Government has extended its controls and restrictions to the point that all phases of American business operate under severe handicaps of rules and regulations. Some controls may be necessary in time of war. Unfortunately, the tendency is to continue so-called temporary controls long after the need for them has passed, until they acquire the aspect of permanency.
>
> Government contributes no capital, no working tools. It accepts no risks—but demands and receives an ever-mounting portion of business earnings. Stockholders are expected to venture their capital though confronted by diminishing rewards. If there are losses the stockholder must shoulder them. Unless this trend is stopped and reversed, the entire economic system of this country faces destruction.

Yes! It IS time to DO something about taxes, and this being "an election year" it is YOUR OPPORTUNITY to make sure that those you elect into local, state and federal office have a true understanding of the absolute need for economy, including the reduction in taxes.

* * *

In five days in March, the U. S. Treasury took away from the American people in taxes more than all the taxes it collected during the entire year of 1940—the five-day collections totalled $5,269-millions, while the entire 1940 year produced $5,264-million.

* * *

REBUILDING EUROPE

When ECA started operations in April, 1948, its objectives were to rebuild the economies of the war-ravaged countries, and to restrain the advance of Communism in Western Europe.

A look at a portion of the record now shows, according to Dr. E. E. Pratt of New York University, that a great modern railway station a mile long has been built in Rome (into which you could put the Pennsylvania Station, Grand Central Station, and all the railroad stations of Chicago and have a few acres left over);

In another town of 40,000, a railway station that would dwarf the stations of Albany, Rochester, and Syracuse. On the Isle of Capri, a new luxurious hotel was erected while many other older, but perfectly suitable, hotels are empty.

On the outskirts of Milan, Rome and Naples are literally hundreds of new apartment houses that would put Park Avenue to shame. Since the average Italian cannot afford to live in these, they have become the source of considerable discontent among the populace.

We wonder how this sort of program aids the productive capacity of the countries involved and repels Communism?

* * *

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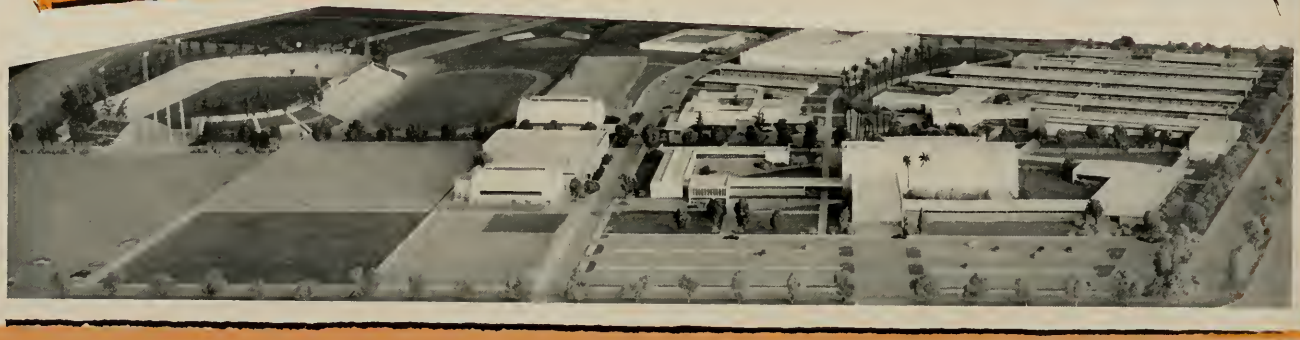

PORCELAIN ENAMEL Veneer was used on several of the present structures and has been specified for extensive use on the eleven remaining buildings of the project—many thousands of square feet! Only **PORCELAIN ENAMEL** offered *all* the advantages: Permanent protection from the elements... fadeproof richness... vitreous luster... firesafety... trim modernity... soap-and-water maintenance.

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NEWS and COMMENT ON ART

ALBERT M. BENDER MEMORIAL FUND GRANT

Trustees of the Albert M. Bender Memorial Fund have announced that the present awards under consideration, representing the tenth year, are the last to be awarded.

Six awards, carrying a stipend of $1,500 each, are being granted—two in Art, two in Literature, and two in Photography. The Jury studying entries in Art, which has been limited to painting and sculpture, are Ray Faulkner, Leon Goldin, Leah Rinne Hamilton, Adaline Kent, and Stephen C. Pepper. The Jury in Literature is composed of Joseph Henry Jackson, James D. Hart, Elizabeth Pope, and Robert C. North. The Jury in Photography consists of Ansel Adams, Ellen Bransten, Dorothea Lange, and Minor White, with Edward Weston serving as consultant.

DEDICATION OF NEW ART BUILDING

Dedication of the new Art Building on the Los Angeles campus of the University of California was held April 25-27, with Dr. David F. Jackey, dean of the College of Applied Arts in charge.

The three day celebration was designed to give everyone interested an opportunity to inspect the beautiful $1,000,000 building, of which Paul R. Hunter of Los Angeles was the architect.

U-shaped in plan, with a large attractively landscaped patio between the projecting wings, the building is of modern design in reinformed concrete and brick, roofed with tile to harmonize with other buildings on the campus. The building features well lighted studios, specialized studios for ceramics, weaving, metal crafts, bookbinding and industrial design, library, seminar rooms, staff offices, large lecture hall, a comfortable lounge, and attractive art galleries.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, announces it will be closed on Friday, May 30th.

During the balance of the month the following exhibits and special events will be observed:

EXHIBITIONS: A special Museum of Modern Art Exhibition by Marcel Breuer, architect; Textiles from Cleveland; Teaching Art—The California School of Fine Arts 16th Annual Drawing and Print Exhibition of the San Francisco Art Association; Brooklyn Print Annual; Art Makes Contact; the Alfred Steiglitz Collection; and the Art of Henri Matisse.

SPECIAL EVENTS: Museum Lectures will be held each Sunday afternoon at 3:15 p.m. and Wednesday evening at 8 o'clock under direction of Museum; classes in Painting each Friday evening at 7:30; the Sketch Club meets each Friday at 7:30; and the regular Children's Class on Saturday mornings at 10 o'clock. Motion picture films on Henri Matisse and related French art will be shown each Saturday afternoon at 3:30.

TERRY NATIONAL ART EXHIBITION

A large number of Bay Area artists are being represented in the Terry National Art Exhibition being held in Miami, Florida, this year.

The exhibit carries a number of awards, some of which have been won by West Coast exhibitors.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, will feature a number of outstanding Exhibitions during the month of May, including Father and Son Paintings by Louis B. Siegriest and Lundy Siegriest; Thirteen Watercolorists—18th Annual; Guild of Book Workers of the American Institute of Graphic Arts; and Paintings and Drawings by Gene McComas.

The usual Museum activities and educational programs will also be conducted during the month.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, will feature the Eleventh Annual Pacific Coast Ceramic Exhibition and Sale of Pottery and Sculpture, May 6 to June 7. This exhibition is sponsored each year by the City of Paris and is organized by Beatrice Judd Ryan to stimulate artists in production of high standards in ceramic sculpture and pottery.

PORTLAND ART MUSEUM

The Portland Art Museum, West Park and Madison, will again feature one of the most popular art exhibits on the West Coast with the annual exhibition of Artists of Oregon.

Indications are that this year's event will surpass any previously held in variety of subjects and number of participating artists.

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HILLVIEW ELEMENTARY SCHOOL
Menlo Park Elementary School District
Melville J. Homfeld, Superintendent

Illustrations and descriptive material for this special article on recent work from the office of Arthur D. Janssen were arranged by HELEN BISCHOFF.

Photograph of Pacific Manor Elementary School by Martin Alley. All other photographs by Keith Cole Studios.

RECENT WORK FROM THE OFFICE OF

ARTHUR D. JANSSEN, A. I. A.
ARCHITECT

WILLIAM H. DASEKING, A.I.A., ARCHITECT, Associate
WALTER L. KELLER, ARCHITECT, Associate

In the fourteen years since Arthur D. Janssen severed his professional connections in Oakland and San Francisco and moved with his family to Atherton, his part in the development of San Mateo County has extended from Sharp Park to Pescadero on the coast, and from Hillsborough to Menlo Park, where his office is located.

"Work originating in the office," Janssen relates, "includes most classifications: schools, churches, stores, office buildings, residences and industrial buildings. Each project is undertaken with the idea that the client's requirements will be met in the simplest and most direct fashion. Constant research is maintained in order that design may be developed to suit the pattern of Peninsula living.

"With each staff member living in the area there is a unified spirit in the group. The office is organized on the atelier system in which each member of the staff may be called upon to contribute to the evolution of the project at any point, from initial planning to final detailing. On many occasions the successful solution of a difficult problem has been possible only through the fusion of several points of view into one coherent scheme," he continued.

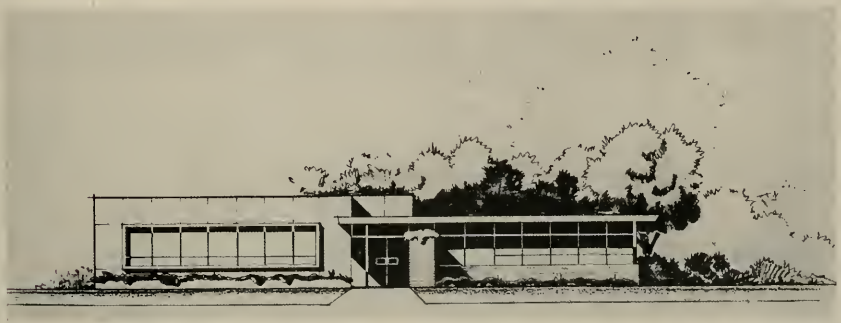
Janssen's graduation in Architecture from Wilmerding School of Industrial Arts was followed by architectural design courses with the Beaux Arts Society of New York through the San Francisco Architectural Club, and engineering design courses with the University of California. His experience in the offices of Bliss and Faville, Bakewell and Brown, Arthur Brown, Albert Lansburgh and W. H. Weeks, included work on the San Francisco Opera House, the San Francisco Veterans Memorial Building, the Pasadena City Hall, and numerous school buildings. His work on the Alameda County Court House was carried on under the direction of the architects for that project.

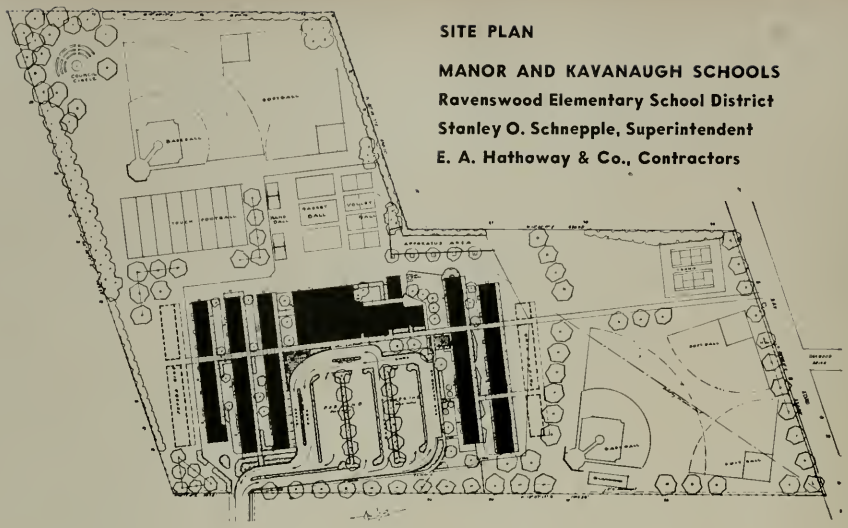
After receiving his certificate in 1929, he was associated in practice with Charles McCall in Oakland. From his own office in San Francisco came the designs for many apartment and commercial buildings, as well as large residences. In an official capacity, Janssen served as architect for the State Harbor Commission. As a member of the San Mateo County Board of Architects, he collaborated with Hervey Parke Clark, James Mitchell and Harry A. Thomsen on the County Relief Home and "Hillcrest", the County Juvenile Home.

Janssen's associates, William H. Daseking, A.I.A., and Walter L. Keller, are an integral part of the organization. Daseking has been associated with Janssen since January 1, 1948. He brings to his work a complete familiarity with the spirit of Peninsula living. A native of Atherton, he attended San Mateo Junior College and was graduated in Architecture from the University of California. During the war he served as a Major in the U. S. Corps of Engineers. Since January 1st of this year, Keller has been an associate of Janssen. A graduate in Architecture of the University of Oregon, he was engaged in architectural work in Honolulu, Portland and Sacramento before coming to the Peninsula. During the war he served as a Captain in the U. S. Army Air Corps. Both men served in the office for several years prior to the date of their association.

DISTRICT ADMINISTRATION BUILDING
Redwood City Elementary School District
Andrew Spinas, Superintendent

Stevenson Pacific-Henderson, Contractors





SITE PLAN

MANOR AND KAVANAUGH SCHOOLS
Ravenswood Elementary School District
Stanley O. Schnepple, Superintendent
E. A. Hathoway & Co., Contractors

A number of schools have been designed by the office in the last three years in answer to the need of school boards for adequate housing for the rapidly increasing number of children in the area.

"No other current type of building presents a greater challenge, architecturally speaking, than schools. To provide the proper facilities and equipment for comfort and safety, and at the same time to surround the children with a pleasant and effective environment for learning, at a price that will not over-tax the community, demands the utmost ingenuity and flexibility of thinking. To have a part in such a program brings satisfaction and a sense of service that cannot be measured."

Certain important elements are brought into Janssen's preliminary plans for schools. Off-street parking must be located to serve the school during the day and the public whenever school facilities are used by the community. Outdoor athletic areas, such as basket ball and volley ball courts and exercise fields must be related closely to indoor gymnasium facilities. Outdoor reading terraces in conjunction with libraries, and outdoor eating areas adjacent to Multi-purpose rooms are other developments in site planning which have brought the architect and landscape architect into close cooperation. The site plan above is the result of collaboration between Janssen and Arthur Cobbledick, Landscape Architect, of Menlo Park.

MANOR SCHOOL

Ravenswood Elementary School District
Stanley O. Schnepple, Superintendent

E. A. Hathaway & Co., Contractors

BELLE HAVEN ELEMENTARY SCHOOL
Ravenswood Elementary School District
Stanley O. Schnepple, Superintendent

Vance M. Brown & Sons, Inc., Contractors

"In fact, coordination is necessary among all concerned with school planning. The successful development of any school depends upon complete cooperation between architect, school board, and school administrators.

"The opportunity to work with such groups is most stimulating. Without exception, our experience has proved that school boards and administrators are eager to include as many improvements as possible in the schools for which they are responsible. Every detail which may simplify the operation of school plants or effect a saving of time and money, is studied, and constant thought is given to improving the standards of health and comfort of the children in the district."

The great assistance given architects by the State Departments concerned with problems of school planning, construction and finance, should be mentioned as a further example of the broad integration of effort directed toward the problem of providing proper school facilities for all communities.

SHARP PARK ELEMENTARY SCHOOL
Laguna Salada Union Elementary School District
A. C. Erickson, Superintendent
Cannon Construction Co., Contractors

KEY

A—Administration Wing
B—Library
C—Multi-purpose Room
D—Kitchen
E—Shop
F—Home Arts Room
G—Kindergarten (in existing wing)

A noteworthy feature of Janssen school designs is bilateral lighting with large windows oriented due north. The solution of the problem of screening the clerestory windows on the south has been conditioned by the financial limitations set by the various school boards. Aluminum louvers, shown in the photograph below, light deflecting screens and light control curtains have all been used.

Another solution to the problem of sky glare has been to continue the roof without interruption over the south corridor and high classroom windows. The photograph of Hillview School on page 8 and the visualizations of Manor and Belle Haven Elementary Schools on pages 10 and 11 show this treatment.

The structural engineering design for the office has been done by I. Thompson, Structural Engineer, of San Francisco, who has most effectively developed the structural elements within the spirit of the architectural design.

An element of design not conveyed by black and white illustration is the emphasis on color in school interiors. The use of plywood wainscots stained in light gray, green, tan or yellow; chalk-

CLIFFORD AVENUE ELEMENTARY SCHOOL

Redwood City Elementary School District
Andrew Spinas, Superintendent

CLIFFORD AVENUE ELEMENTARY SCHOOL

Redwood City Elementary School District
Andrew Spinas, Superintendent

Peter Sartorio, Contractor

boards in light green, light brown, light blue or coral; white fiberboard upper walls and acoustic tile ceilings, all in complete conformity with recommended standards of light reflectance, have changed materially the atmosphere of school rooms from those done ten years ago.

The view of the classroom (left) shows typical finish materials, (1) acoustic tile ceilings, (2) fiberboard upper walls providing additional tack space, (3) teacher height chalkboards at front, child height boards at side, (4) plywood wainscot, (5) asphalt tile floor and matching cove rubber base.

The photograph above shows the rear of the same classroom with provision for coat hanging, storage for students and teachers and sink case.

To the office of George Erskine, Associates, Menlo Park, has been given the task of designing mechanical, electrical and sanitary facilities in Janssen schools. Working within the cost limitation set by the school boards, they have provided the maximum in equipment for comfort, safety and utility.

GARFIELD ELEMENTARY SCHOOL

Redwood City Elementary School District. Andrew Spinas, Superintendent.

Stevenson Pacific-Henderson, Contractor

Multi-purpose buildings have been developed in the last few years as a solution to the problem of uneconomic use of space. For many years, gymnasiums have been utilized as auditoriums by the simple device of adding a stage at one end of the room, and using movable chairs on the playing floor. The recent development has been to locate the kitchen adjacent so that the gymnasium-auditorium may also function as a lunch room. The elimination of the separate lunchroom, a large area used only for a short time during the day, has been facilitated by the development of patented tables and benches which fold up into the wall of the Multi-purpose rooms as illustrated below.

The same photograph shows a Multi-purpose room rising platform. To Janssen goes the credit for the design of the platform as a space-saving device. When the room is not in use as an auditorium, the platform lowers to become part of the playing floor. George Erskine, Associates, and Bob Hipp perfected the mechanical details and manufacture of the platform mechanism. Chain driven, acme thread screws in each corner of the platform are powered by a ¾ H.P. motor and gear reduction box to raise or lower the platform. The platform rises and falls at a uniform rate of about three and one-half inches per minute.

The maximum height is 18 inches but the platform may be used at any level. It is shown below at full height with movable steps in front. Immediately at the right of platform in the photograph, is the soiled dish port and door to the kitchen.

The exterior view above shows a Multi-purpose building and portion of a classroom wing built as an addition to an existing school.

ENCINAL SCHOOL

Menlo Park Elementary School District. Melville J. Homfeld, Superintendent

EI PORTAL DEL SOL SCHOOL

San Mateo County Schools

James R. Tormey, County Superintendent of Schools

Earl W. Emley & Son, Contractors

One of the most interesting school problems handled in the past several years is El Portal del Sol, a school for the San Mateo County Department of Special Education, under the San Mateo County Superintendent of Schools. The school, designed for children with cerebral palsy, was built on the property of the George Hall School in the city of San Mateo. Except for the substitute of ramps for steps and the use of an enclosed corridor and connecting wing instead of the open corridor circulation, the exterior conforms to the adjacent buildings.

The Department of Special Education conceived of the project as an environment for orientation as well as learning, and the school plant includes, in addition to three classrooms, multi-use room and service facilities, rooms for speech therapy, occupational therapy, and physical therapy. Except for safety precautions, such as railings on porches and ramps, and grab bars in toilet rooms, the school was developed to reproduce public school facilities into which it is planned to move those children whose response to prescribed therapy indicates that such a transfer can be effected without detriment.

The exterior view above shows the porch outside the physical therapy room and the ramp to the play yard. Supports for the pipe railings are offset to minimize chances of interference with walking aids.

A portion of the physical therapy room is shown below. The special platform shown in use provides exercise in walking and climbing steps on one piece of apparatus. One end is placed against the wall to facilitate turning. The height of the hand rails is adjustable.

EL PORTAL DEL SOL SCHOOL

San Mateo County Schools

James R. Tormey, County Superintendent of Schools

EDY'S
Menlo Park, California

A. D. Janssen, Jr., Contractor

LUCELLE'S
Menlo Park, California

M. C. Ingraham, Contractor

ENTRANCE

ARCHITECT'S OFFICE

For ARTHUR D. JANSSEN, A.I.A., Architect
WILLIAM H. DASEKING, A.I.A., Architect, Associate
WALTER L. KELLER, Architect, Associate
Menlo Park, California

A. D. Janssen, Jr., Contractor

CONFERENCE ROOM

Street Front

Two Residences

ARTHUR D. JANSSEN

WILLIAM H. DASEKING, A.I.A.,
ARCHITECT, Associate

MR. AND MRS. GEORGE WALLING

Atherton, California

A. D. Janssen, Jr.,
Contractor

Garden Front

Living Room

From The Office of

A.I.A. ARCHITECT

WALTER L. KELLER, ARCHITECT
Associate

STREET FRONT

MR. AND MRS. MARTIN WUNDERLICH

WOODSIDE, CALIFORNIA

ENTRANCE

M. C. Ingraham,
Contractor

DINING AREA IN LIVING-DINING ROOM

Built-in case and louvers—Redwood Curtain at right screens dining space from living room.

PACIFIC MANOR ELEMENTARY SCHOOL

Laguna Salada Union Elementary School Dist.

A. C. Erickson, Superintendent

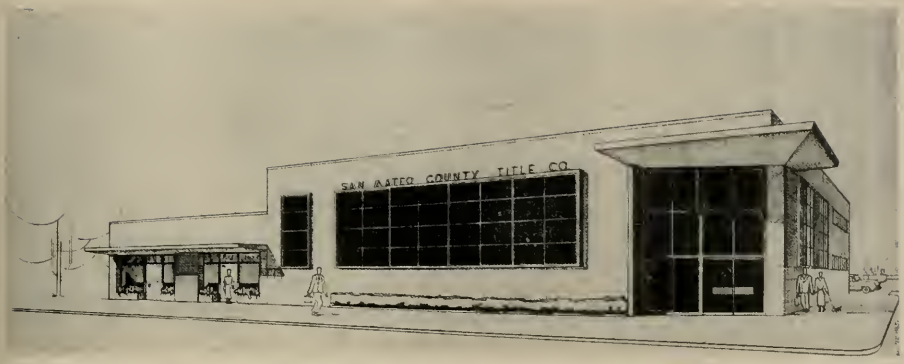
Cannon Construction Co.

Contractors

Janssen paid tribute to the contractors who have done work on the Peninsula. "The architect must depend on the excellence of construction achieved by the building industry for the translation of his design into buildings acceptable to his clients. Without the cooperation of a contractor with integrity, even constant architectural supervision is unequal to the task. We have been most fortunate in

GOODWIN SCHOOL (Under Construction)

Carl N. Swenson Co., Inc., General Contractors



SAN MATEO COUNTY TITLE COMPANY
CURRIE BUILDING
Redwood City, California

Structural Steel by San Jose Steel Co.

Julian N. Basin, Contractor

being able to work with leaders in the field of construction locally, who are playing an important part in the development of the area. They are keeping pace with the most advanced methods of construction without sacrificing past standards of excellence and will continue to serve the expanding communities of San Mateo County."

ANNUAL EDUCATION LECTURES
Surface Treatments and Finishes for Metals

Puget Sound Chapter, American Society for Metals

Reported by L. F. FRANZ, Boeing Airplane Company

The Puget Sound Chapter of the American Society for Metals, Seattle, Washington, presented its third and final session of the Annual Educational Lectures this month. The lectures were presented in the form of an open panel discussion on "Surface Treatments and Finishes for Metals," with Wm. H. Turner of Pacific Metals Co. as Moderator.

The main topic for discussion was "Aluminum and Aluminum Alloys." The first speaker, J. W. Sweet, Chief Metallurgist, Boeing Airplane Company, spoke on "Surface Finishes Resulting from Machining, Heat Treating, and Abrasive Cleaning." Sweet discussed in some detail the surface conditions found on as-received raw stock and surface conditions developed during processing of parts, and the methods used to reveal and evaluate these surface conditions. The processing of parts including machining and heat treating. The speaker also discussed several of the abrasive and mechanical means for improving the surface appearance of aluminum alloys and gave several definitions of terms used by the trade.

The second speaker, R. N. Page, Research Advisor, Boeing Airplane Company, discussed "Chemical and Mechanical Cleaning and Chemical Coatings of Aluminum and Aluminum Alloys." Page discussed in some detail vapor degreasing, particularly alkaline vapor, and the problems involved in this method of cleaning. The removal of the natural oxide, which is about .01 micron thick, was discussed with the reasons for its removal, among which is to obtain certain chemical finishes. Chemical finishes have several functions, such as corrosion protection, paint base, and a decorative finish.

The third speaker, G. H. Kissin, Finishing Department Head, Kaiser Research Laboratory, Kaiser Aluminum and Chemical Corporation, discussed "Metal Coatings." Two principal methods of obtaining metal coatings were discussed by Kissin. These methods are cladding and electroplating. Cladding is a fabricating process rather than a finishing process, but does provide a finishing

(See page 29)

Photo's by Jack Ryerson's Camera Shop

TYPICAL CLASSROOM WITH NEWLY DESIGNED TOP LIGHTING

TOP LIGHTING SCHOOL CLASS ROOMS

C. A. CAULKINS, JR. & ASSOCIATES, Architects

Andre Morilhat, A.I.A., Associate

North Elevation Doyle Park School, Santa Rosa, California, showing kindergorten wing and stone wall enclosure for kindergarten play area.

Top lighting for school classrooms has long been recognized as the most satisfactory. We note in a recent architectural magazine that the realization of top lighting is conceded to be too expensive to achieve.

We are glad to report that we have not only been using top lighting for the past five years, but we are saving money by so doing. Two years previous to any installations were spent in experimentation. Briefly, the system is not only lighting, but ventilation, cooling, heating and a distinct aid to audio-visual education.

Approximately 60 per cent of the ceiling area is covered with skylight with an adjustable ceiling ventilator the full length of the classroom, and glazed with a heat absorbing wire glass. Eight inches below the skylight is a specially designed louver arrangement which will allow as much light as desired to enter the room, but stops all direct rays of the sun for 365 days of the year.

At first we recognized the high north windows and merely used the top lighting to rectify that portion of the room not up to requirements. This system resulted, after many adjustments, in a nearly perfect lighting system. The intensity of light at the desk top was practically uniform throughout the room at all times of day in any kind of weather.

We experimented in the beginning with various depths of louvers, but the results were always the same. The louvers had to be so close together in order to eliminate the direct rays of the sun, that the light penetration was insufficient. We dropped the project for some time, believing that a solution was impossible. Finally we experimented again with louvers of various shapes. Among others we tried "L" shape louvers, trying various depths, with the narrow aperture at the top. The dimension of the aperture at the top of the "L" shaped louver was the same as the distance between the original straight louvers. However, the distance between the "L" shaped louvers was considerably greater, thereby allowing a light play between the louvers. This seemed to solve the problem perfectly after certain minor adjustments were made.

The Board of Trustees of the Eucalyptus School near Sebastopol, California, were sufficiently impressed with our models and facts that they allowed us to incorporate our top lighting system into their new one-room school building. The results were more than satisfactory. Everyone who visited the school commented on the light, airy, and cheerful atmosphere of the room.

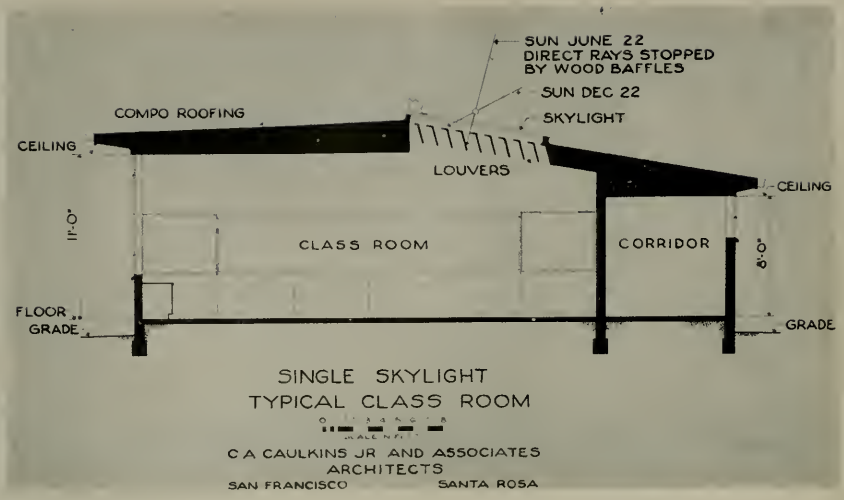
This top lighting system was incorporated in 15 schools in rapid succession.

We then decided to eliminate lighting from the

Elevation of the East wall of a typical Class Room, overhead lighting augments windows at left. Curtains provide regulation of light concentration from windows.

TOP VIEW ON OPPOSITE PAGE

Shows elevation of the South wall of a typical Class Room with overhead louver arrangement. Note the even distribution of light on all working surfaces in the room . . . desks and wall.



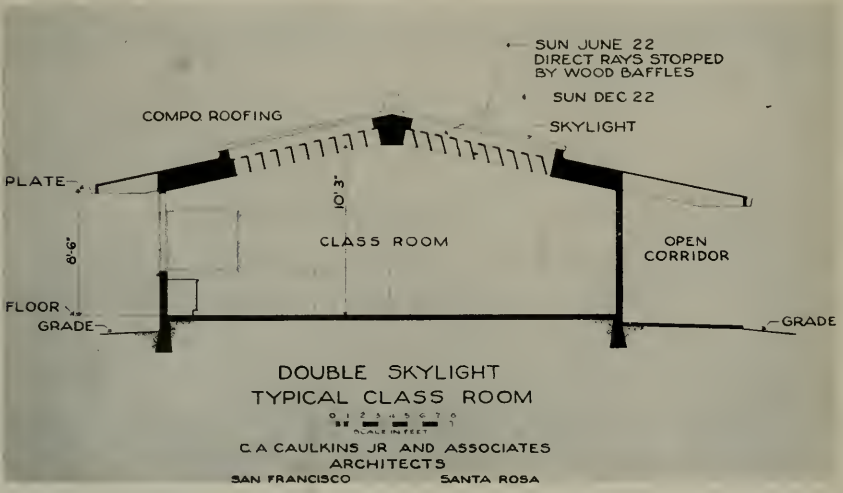
SINGLE SKYLIGHT
TYPICAL CLASS ROOM

north windows and depend entirely on the top lighting as illustrated in the accompanying sketch. We have completed two such schools, one is now under construction and several more are on the drawing boards.

This new arrangement places the skylight equally on each side of the center ridge with the ventilator at the top as before. In this way the top plates are lowered to 8'-6" above the floor and the north windows are used only for psychological reasons and an aid in ventilation.

Incidentally, we have eliminated all steel from construction, also all pipe columns from open corridors, thus it will be seen that this section eliminates approximately 25% of the volume from most school sections, thereby lowering the cost far more than enough to pay for the extra skylights.

In states outside of California where corrugated



DOUBLE SKYLIGHT
TYPICAL CLASS ROOM

Alsynite can be used in place of glass skylights, the saving will be even greater. The problems of ventilation, heating, cooling and audio-visual education are all solved to a remarkable degree in this design. There is a space of 10 inches between the heat absorbing glass of the skylight and top of the louvers. When the weather is hot, the heat generated under the glass rushes out the ventilator, creating a circulation of air in the classroom and lowering the temperature as much as 4 degrees by thermostatic tests. The action is best described as stack action used in coolers. In cold weather the ceiling ventilator can be closed and the room will then be heated by solar heat. Even though the sun is not shining on a cold day, many times there is enough solar heat to turn off the artificial thermostat. Obviously, this lowers the artificial heat bills considerably.

Darkening for audio-visual education is accomplished by means of curtains between the skylight and the top of the louvers. Since the apertures between the louvers are only 6 inches, the shade is pulled easily. The whole area can be quickly darkened and still provide ample ventilation. The cost of the shades is less than half the cost of darkening curtains at the usual clearstory windows.

We believe we have achieved as near perfect lighting as it is possible to achieve. We have improved the ventilating, cooling, heating and visual education. All this has been accomplished with less cost because of the simplicity in construction and elimination of unnecessary cubage. We believe that this is the greatest advance in schoolhouse design for many years.

TOP VIEW of typical skylight showing aluminum glazing bars, heat resistant glass and continuous ridge ventilator.

The 36" girder beam and the stub columns between which hydraulic jacks were applied as a lateral load.

LATERAL DIAPHRAGMS of Light Gauge CELLULAR STEEL

By JOHN A. BOLL,

Building Panel Division, Detroit Steel Products Company.

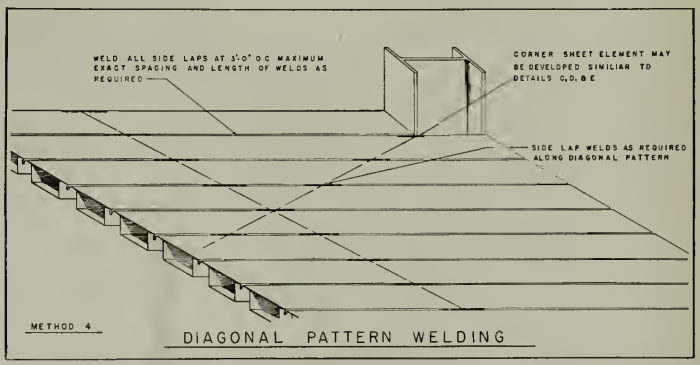
The use of light gauge sheet steel in structural capacities has become increasingly popular in the past thirty years. First used in short span steel roof decks in 1920, the material has since been used as floor forms, long span cellular floors, combination acoustical-structural ceiling-roof decks and insulated steel curtain walls.

Data gathered from a recent lateral diaphragm research program now provides the architects and engineers of the country with a method of designing buildings to resist earthquake damage when using light gauge panels. The results of the tests are also applicable to wind loads and lateral loads from bomb or other explosive shock waves.

Recognizing the need of a practical method of lateral diaphragm design with light gauge structural steel, the Building Panel Division in cooperation with S. B. Barnes, Los Angeles Consulting Engineer, and under the supervision of Professor Fred J. Converse of the California Institute of Technology conducted exhaustive tests at the Bethlehem Shipyards, Terminal Island, Los Angeles.

The Division of Architecture of the State of California and the Building Departments of the City and County of Los Angeles helped develop the data which is now available. At the suggestion of these agencies, the panel diaphragms were tested with 6 to 1 and 3 to 1 length-width ratios in order

Photo's Courtesy Detroit Steel Products Company


WELD ALL SIDE LAPS AT 3'-0" O.C. MAXIMUM EXACT SPACING AND LENGTH OF WELDS AS REQUIRED
CORNER SHEET ELEMENT MAY BE DEVELOPED SIMILIAR TO DETAILS C, D, & E
SIDE LAP WELDS AS REQUIRED ALONG DIAGONAL PATTERN
METHOD 4
DIAGONAL PATTERN WELDING

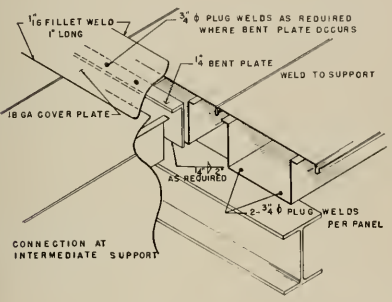
to observe the relation of the effects resulting from these changes.

The actual test was conducted on a panel 48′ x 8′ (6:1), changeable to 48′ x 16′ (3:1), with the Fenestra deck reversible in direction. A heavy concrete slab formed a solid, constant foundation from which deflection could be calculated. The panels were erected on a steel framework.

Loads were applied at third points by hydraulic jacking between the stub columns of the test specimen and a 36″ girder beam. Reaction ties at the corner stub columns were attached to the girder beam, and rollers under all columns minimized friction. Electric strain gauges and check transit readings were recorded.

The results of the test program are applicable only to the light gauge structural steel panels manufactured by the Fenestra Building Panel Division.

Electric strain gauges were used to check stress imposed on Fenestra Building Panels by the lateral load.


1/8 FILLET WELD 1" LONG
3/4 ϕ PLUG WELDS AS REQUIRED WHERE BENT PLATE OCCURS
1/4 BENT PLATE
WELD TO SUPPORT
18 GA COVER PLATE
AS REQUIRED
2-3/4 ϕ PLUG WELDS PER PANEL
CONNECTION AT INTERMEDIATE SUPPORT

No sheer connections were found necessary to develop proper diaphragm qualities since, with flat surface down, the panel performs as the diaphragm in the plane of the beam flanges to which it is welded.

When used in accordance with the manufacturer's specifications, the X pattern of welding provides a diagonal bracing tie action.

Butt plate and weld design.

The 48'x8' test panel being erected at Bethlehem Shipyards, Terminal Island, Las Angeles.

84TH ANNUAL CONVENTION OF THE AMERICAN INSTITUTE OF ARCHITECTS

Major speakers at the technical sessions of the 84th annual convention of The American Institute of Architects, June 23-27, New York City, have been announced by Arthur C. Holden, New York architect and chairman of the convention committee.

Six major speakers will develop various aspects of this year's technical theme, "Structural Resources for Architectural Design," including Architectural Concrete with Walter A. Taylor, A.I.A. Director of Research and Education, moderator. Speakers include Roger Corbetts, New York Builder; O'Neil Ford, San Antonio, Texas, architect and consultant to the Southwest Research Foundation; Prof. M. J. Holley, Massachusetts Institute of Technology; C. S. Whitney, New York consulting engineer; Henry L. Wright, Los Angeles architect and school building specialist; and William H. Scheik, executive directtor, Building Research Board, National Academy of Sciences, Washington, D. C.

PETER SARTORIO

General Contractor

for Clifford School
Redwood City
California

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San Francisco GArfield 1-4741

WOMEN'S ARCHITECTURAL LEAGUE OF THE EAST BAY

The East Bay Chapter of the Women's Architectural League held their annual Home Tour on May 15th, with six outstanding homes in the Oakland area being shown. All of the houses were of contemporary design and constructed within the past three years, and represented the work of architects Vernon De Mars, Kitchen & Hunt, Anshen & Allen, Campbell & Wong, Andrew P. Anderson, Jr., and Confer & Ostwald.

In charge of this year's event were Mrs. Walter Olds, Chairman; Mrs. John Zerkle, Mrs. Roger Lee, Mrs. Irwin Johnson, Mrs. George Simonds, Mrs. Andrew Anderson, and Mrs. Harry Clausen.

C. H. SAWYER DIES IN PALO ALTO HOME

Charles H. Sawyer, at one time City Architect for the City and County of San Francisco, and retired from practice since 1938, died at his home in Palo Alto on April 21 at the age of 83.

A native of San Francisco, Sawyer took an active part in much of the city's early construction.

SUMNER MAURICE SPAULDING DIES IN LOS ANGELES

Sumner M. Spaulding, 59, nationally known architect and city planner, died at the California Hospital in Los Angeles on April 10, following an illness of three months.

He was instrumental in the design of the Los Angeles Civic Center and was associated with J. C. Austin in planning the Los Angeles Municipal Airport.

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A director, delegate, vice-president, president, Fellow-AIA, and active in The American Institute of Architects, Spaulding was recognized throughout Southern California as one of the nation's great architects.

FRANK JAMES, ARCHITECT, DIES AT IDAHO HOME

Frank L. James, 74, one of the nation's foremost golf course architects, died at his Moscow, Idaho, home on April 10.

A veteran golf professional and builder of more than 100 courses in the United States, he had been in charge of the University of Idaho's course since its construction in 1936.

SOUTHERN CALIFORNIA JOINT CONFERENCE AND EXHIBIT

A conference of the several planning agencies of Southern California was held this month in Los Angeles to discuss latest developments in the growth and expansion of the area.

Participating in the conference were the Los Angeles City and County Regional Planning Offices, the California Chapter of the American Institute of Planners, the American Society of Landscape Architects, and the Southern California Chapter A.I.A.

SURFACE TREATMENT—METALS

(From page 21)

coat. Many problems are encountered in electro plating metals onto aluminum because of the oxide coating. Kissin discussed some of the methods used, such as the fusion method and the zinc immersion process. Several other methods have been and are being developed, some of which require the removal of the oxide film while others take advantage of it. Some platings are used as a base for further plating or as a strike for banding methods.

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ALBERT FARWELL BEMIS ARCHITECTURAL FELLOWSHIP

The Albert Farwell Bemis Foundation of the Massachusetts Institute of Technology is offering for the second year a Bemis Foundation Fellowship of up to $2500 for a program of graduate research in housing during 1952-53, according to an announcement by Burnham Kelly, director of the Foundation.

Any significant aspect of housing, from broad studies to specific problems, may be the basis for research. Candidates will be selected on the basis of their qualifications and of the contributions which they may be expected to make in the field of "shelter for mankind."

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WASHINGTON STATE CHAPTER

The annual Joint Student-Alumni-A.I.A. meeting on May 8th, at the Seattle Yacht Club, was another outstanding success with Charles T. Pearson acting as master of ceremonies.

Highlight of the program was an address by Glenn Stanton, president of The American Institute of Architects, on architecture and the architectural profession.

An exhibit of work by students and practicing architects at the School of Architecture, University of Washington, and awarding of a number of merit recognition to students including the A.I.A. Gold Medal and Second Award, the A.I.A. Scholarship, the Alpha Rho Chi Medal, the Faculty Awards and the Alumni Traveling Scholarship completed the program.

The program for the Third Annual A.I.A. Honor Awards Competition which is open to Chapter members, Corporate, Associate, Junior and Student Associates was announced and includes a Single Family residential unit to cost $20,000 and under; Single Family residence to cost over $20,000; Commercial and Industrial structures; and Institutional and Public Buildings.

SOUTHERN CALIFORNIA CHAPTER

N. Bradford Trenham, general manager of the California Tax Payers' Association, addressed the May meeting on the subject "The Architect is Interested in Taxes." The speaker emphasized the importance of rising taxes to every type of business and profession and urged architects to give serious consideration to the effect of taxation upon their profession.

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Kenji Onodera, President, 3518 McCorriston St., Honolulu, T. H.; George I. Wimberly, Secretary, 315 Royal Hawaiian Ave., Honolulu, T. H.

CALIFORNIA COUNCIL OF ARCHITECTS
William Koblik, President, 2203 - 13th St., Sacramento; Donald Beach Kirby, Secretary, 461 Market St., San Francisco; Frederick A. Chase, Exec. Secty., 3723-A Wilshire Blvd., Room 206, Los Angeles.

ALLIED ARCHITECTURAL ORGANIZATIONS

San Francisco Architectural Club:
Charles W. Dennis, President. Joseph Scoma, Vice-President; Russell Pennell, Treas.; Camiel Van De Weghe, Sec. Offices 507 Howard Street.

Producers' Council—Southern California Chapter:
Harold F. Smith, President, Gladding, McBean & Co.; Bert Taylor, Vice-Pres., Pittsburgh Plate Glass Co.; Richard Seaman, Sec., W. P. Fuller Co.; Clay Snider, Treas., Minneapolis-Honeywell.

Producers' Council—Northern California Chapter (See Special Page)

Appearing on the same program and speaking on the subject of "The County Superintendent and the Architects" was Dr. C. C. Carpenter, Assistant Superintendent of County Schools, Prof. in Educational Administration at the University of Southern California.

The meeting was also the annual meeting with the Student Chapter at the University of Southern California and a number of awards and recognition of merit were presented students.

Until further notice the office of the Chapter will be open Monday through Thursday and will be closed the balance of the week.

CALIFORNIA COUNCIL OF ARCHITECTS

The California State Chamber of Commerce has called a conference in San Francisco on June 12 to discuss the problem of distressed school districts including proposed legislation, procedures, and other important phases of the state's school construction program in which architects have a vital interest.

Architects of California will be represented at the meeting by officers of the California Council of Architects.

NORTHERN CALIFORNIA CHAPTER

Through the concerted efforts of the Chapter and Francis Joseph McCarthy, president, an item was recently reinstated in the annual budget of the City and County of San Francisco, calling for the development of a Civic Center Plan. The project was a part of the original budget but was in danger of being postponed as an economy act until given final approval by Mayor Elmer Robinson following a number of conferences with McCarthy.

SAN DIEGO CHAPTER

The regular April meeting was a joint conference with the Producers' Council at which time the members were given an opportunity of viewing many new products being offered by Council members. An interesting and educational exhibit

(See page 36)

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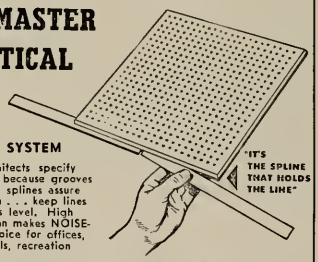

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Structural Engineers Association of California
Donald F. Shugart, President; Walter A. Buehler, Vice-President; Lewis K. Osborn, Sec.-Treas.; Office c/o Kistner, Curtis & Wright, Room 203 Architects Bldg., Los Angeles. Directors Arthur W. Anderson, John E. Rinne, Henry J. Degenkolb, Lewis K. Osborn, Ernest C. Hillman, Jr., R. W. Binder, Donald F. Shugart, Walter A. Buehler, and G. E. Goodall.

Structural Engineers Association of Northern California
John J. Gould, President; G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Ass't. Sec.; Wm. K. Cloud, Ass't. Treas.; Directors Robert P. Dalton, John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick. Sec. Office, 417 Market St., San Francisco.

Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION SOUTHERN CALIFORNIA

The May meeting was a combined meeting of the Los Angeles Engineering Council of Founder Societies and the SEAOSC honoring the one hundredth anniversary of the founding of the American Society of Civil Engineers.

Principal speaker was Frank W. Edwards, B.S. in General Engineering, and Master Degree in Hydraulic Engineering, University of Iowa, whose subject was "Beginning the Second Hundred Years", and covered a wide experience in engineering practice and instruction.

The June meeting scheduled for the U. S. Naval Civil Engineering, Research and Evaluation Laboratory at the Construction Battalion, Port Hueneme will be the last regular meeting until September as July and August meeting will not be scheduled although the annual "field day" will be observed on August 8, at the Oakmont Country Club.

New Members include J. Alfred Martin; Leonard J. Rotter, Junior; and F. Robert Preece, Associate.

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U. C. ENGINEER NAMED FOR NATIONAL INDUSTRY AWARD

Top national honor in the field of industrial management was awarded to Dr. Ralph M. Barnes by the Society for Advancement of Management at the seventh annual Time Study and Methods Conference in New York recently.

Dr. Barnes, professor of production management and engineering on the Los Angeles campus of the University of California, was nationwide choice for the National Industrial Incentive Award. His motion picture films of work measurement and time study are well known and are now in use in Canada, England, Norway and Sweden.

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

"Glued Laminated Construction" was the theme of the regular May meeting with T. K. May of Portland, Oregon, Ben Benioff of Los Angeles, and MacGregor Graham of Oakland leading discussions on various phases of the subject.

SOCIETY OF AMERICAN MILITARY ENGINEERS—SAN FRANCISCO POST

Major General Colby M. Myers, USAF, spoke before the May meeting at the Presidio Officers Club in San Francisco, on the subject "Military Construction Problems, Current and Future," giving a comprehensive analysis of the many serious problems facing military authorities in charge of construction throughout the world.

Prior to his assignment to the Air Force in 1947, General Colby was with the 8th Army as staff supervisor in charge of all construction for the oc-

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Laren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

cupation forces. He began his military career with the U. S. Army in 1925 as company officer of the 13th Engineers at Fort Humphreys, Virginia.

THE FEMINEERS

Nerice Fugate, director of the House of Charm in San Francisco, recently presented a program on "Charm" with spring hats for the occasion being furnished by the H. Liebes Company.

Mrs. H. S. Kellem was the hostess of the day. Mrs. A. C. Horner is president of the group which comprises wives of members of the American Society of Civil Engineers, and the Structural Engineers Association of Northern California.

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

The National Society of Professional Engineers, an organization of 27,000 registered engineers in 38 states, having 300 chapters, will hold its annual meeting in Tulsa, Oklahoma, June 5-7.

The two day conference will be presided over by L. L. Dresser of Tulsa, President of the association.

ENGINEERS EXAMINATION FOR CALIFORNIA LICENSE

Of the 104 candidates taking the examination for license to practice in California, 22 per cent passed successfully and thereby set a new all time high record. Twenty three of the successful candidates passed with a grade of 70 per cent or more. Ralph Gordon Dean and Paul Hugo Winter tied for high grade with a 88 per cent, while the lowest grade of all candidates was 10.5 per cent.

Among the new Structural Engineers are: Reuben R. Alvey Eugene D. Birnbaum, Bernhard Cardan, and Arthur W. Parker of Los Angeles; Thomas G. Atkinson, La Jolla; Jack S. Barrish, Sacramento; Truland H. Carter, Reseda; Wm. D. Crouch, Jr., Woodland Hills; Ralph G. Dean, Colma; J. M. Fratt, and Paul H. Winter, Pasadena; Bradley B. Garretson, W. C. Hamilton, and Christopher Y. Lau, Oakland; W. Howard Gerfen, San Marino; C. D. Hoover, Whittier; Milton G. Leong, San Francisco; John E. Soehrens, Altadena; James L. Stratta, San Mateo; Wayne Taul, Fresno; Howard G. Taylor; Compton; Robert H. Weight, Rivera; and Ralph A. Wiese, Bakersfield.

UNIVERSITY OF CALIFORNIA COLLEGES OF ENGINEERING

Qualifying examinations for the University of California's colleges of engineerinig at Berkeley and Los Angeles were held early this month in some twenty-three cities scattered throughout the state.

The Engineering Examinations, Lower Division, were taken by students wishing to enter the col-

(See page 35)

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ANNUAL TABLE TOP EXHIBIT

The Producers' Council of San Francisco is scheduling their Annual Table Top Exhibit for Wednesday, May 21, in the Terrace Room of the Fairmont Hotel in San Francisco.

The Exhibit this year will include about fifty participating members of the Producer's Council and there will be on display the latest developments in a wide range of building materials.

The Exhibit will open at 3:30 p.m. and will be attended by a large group of architects, engineers, contractors and Federal, State and Municipal representatives from the Bay Area.

Cocktails will be served between the hours of 5:00 p.m. and 7:00 p.m.

This occasion always proves to be a very successful one, both from the informational as well as the social standpoint.

THE DAVENPORT STORY

At our last regular informational meeting held at noontime, April 14, at the Palace Hotel, the Aluminum Company of America presented their latest film entitled, "THE DAVENPORT STORY" which showed the latest developments in design and construction with aluminum.

This was truly a fine film and we are sure that the entire Producers' Council joins us in offering our congratulations to the Aluminum Company of America and to Mr. Al West who officiated at the meeting.

For those who had the pleasure of seeing and hearing this film, it is quite evident that the Councils' efforts to improve the type of presentation at our informational luncheons is bearing fine fruit.

GUESTS AT INFORMATIONAL MEETINGS

Last month we discussed the rotational system by which architects and engineers are invited as guests of member companies of the Producer's Council to attend the various informational meetings. Due to the large number of architects and engineers, it is impossible to attempt to screen these guests to determine who would be interested in any one particular informational meeting and not another.

As it is our desire to have all interested parties attend these informational meetings, we are listing below the meettings which will be presented during the remaining part of this year and the Producers' Council wishes to extend an invitation on a Dutch Treat basis to all architects and engineers who would be interested in hearing the program and who, due to the rotational system of selecting guests, did not receive an invitation to attend as a guest of one of the members of the Council. Invitations to guests are generally in the mail about two (2) weeks before the meeting.

The charge for these luncheons is $2.25 per person, and we ask that reservations be made sufficiently in advance so that we can properly prepare the accommodations. For reservations call A. L. West, Jr., YU. 6-6484.

INFORMATIONAL MEETINGS SCHEDULE
PALACE HOTEL, SAN FRANCISCO

July 14—"Radiant Baseboard Heating," by Bastian Morley Company, Inc.

August 4—"Protective Treatment of Lumber," by American Lumber & Treating Company.

September 8—"The Story of a House," By Kimberly-Clark Corp.

October 6—"Classroom Daylighting," by Detroit Steel Products Company.

November 5—"Steel Double-Hung Windows for the Modern Residence," by Truscon Steel Co.

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WITH THE ENGINEERS

(From page 33)

leges of engineering at the freshman or sophomore level, and included aptitude tests for measuring abilities necessary for success in engineering training.

The Upper Division Examination was taken by students wishing to enter at the junior or senior level and included achievement tests in English usage, engineering drawing, mathematics, chemistry, and physics.

NOTED DESIGNER VISITS UNITED STATES

Maurizio Tempestini, Florentine architect and designer, arrived in New York early this month for an extensive visit to the United States.

Tempestini is noted for his designs in wrought iron furniture, decorative accessories and interiors and comes to this country for a study of American home furnishing trends.

CALIFORNIA STATE BOARD OF ARCHITECTURAL EXAMINERS

The California State Board of Architectural Examiners met in Los Angeles early this month to discuss the examinations to be held at the University of Southern California and University of California in June and to act on other routine matters.

According to reports some 320 applicants sat for the December examination with 63 qualifying for the oral examination to be held this month. Twenty-four of the successful candidates were from northern California and 39 from southern California.

Earl T. Heitschmidt, F.A.I.A., Los Angeles, was elected president of the Board for the ensuing year succeeding C. J. Paderewski of San Diego who is now serving as secretary.

Other members of the Board include Herbert J. Powell, F.A.I.A., Los Angeles; Norman K. Blanchard, A.I.A.; and William Clement Ambrose, A.I.A., San Francisco.

TELEPHONE COMPANY RESTRICTS PHONE BOOK LISTINGS

The Pacific Telephone and Telegraph Company is subscribing to the policy that no person except a licensed architect can have a listing under the Classification of Home Plans in the Classified Telephone Directory.

Future listings in the Directory will be in conformity with an opinion of the Attorney General which points out that no person except an architect can have a listing under such classification.

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A.I.A. ACTIVITIES

(From page 31)

had been prepared by the Producers' Council.

Chapter members have gone on record as supporting an Oklahoma Chapter resolution favoring motion picture propaganda as the most effective way of showing architects' activities.

A "Glen Stanton for Second Term" is being being advocated by a number of members who feel the present President of the AIA should be retained for a second term.

WILL PRESENT PAPER AT ANNUAL AIA CONVENTION

Architect Henry L. Wright of Los Angeles has been selected to present a paper on "Conservation in School Buildings" at the Annual Convention of The American Institute of Architects which is being held in New York City June 23-27.

The general theme of the meeting is to be "Structural Resources for Architectural Design."

HIGHWAY OFFICIALS MEET IN SEATTLE IN JUNE

The 31st annual conference of the Western Association of State Highway Officials will be held in Seattle, Washington, on June 5, 6, and 7.

William C. Pedersen, Washington Department of Highways, is general chairman of the conference and will coordinate the programmed activities.

Among subjects scheduled for discussion will be the problems facing highway programs in various states and efforts being made to solve them.

SOUTHERN CALIFORNIA CHAPTER PRODUCERS' COUNCIL MEETING

A joint meeting of the San Diego Chapter of the American Institute of Architects and the Producers' Council at San Diego recently afforded architects an opportunity to view a table-top display of the newest products of Council members.

Arrangements for the event were in charge of Harry Bennett and Bob Sandwick representing the Producers' and Dick Pennell and Louis Dean for the architects.

SOUTHERN CALIFORNIA OBSERVES ANNUAL MODERN HOMES TOUR

The Radcliffe Club of Southern California will sponsor the 1952 Modern Homes Tour which will feature the City of Pasadena.

A number of architects are participating in the event and include Harry Aarens, Gregory Ain, Henry L. Eggers, Robert Faxon, Douglas Honnold, Edla Muir, Richard Neutra, Lucille Raport, Burton Romberger, Rudolf M. Schindler, Burton A. Schutt, Morris D. Verger, and Harold Zook.

"The time has come for you to begin planning non-defense industrial, commercial and instutional construction involving fabricated structural steel," Mr. Post stated.

"By the third or fourth quarter of 1952 there will be ample plant capacity to handle additional business of this nature. At the same time, the structural steel supply situation shows definite signs of improving, although a prolongued steel strike would change the picture. Steel bars are expected to continue in short supply for some time, according to the Defense Production Administration.

"In view of the lead time required before fabrication can actually begin, it is not too early now to start working drawings for projects which you have had to shelve because of restrictions," the letter concluded.

REORGANIZATION OF ARCHITECTURAL AND ENGINEERING FIRM ANNOUNCED

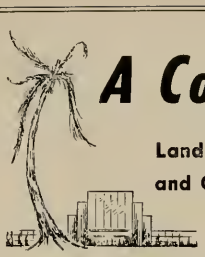
The Architectural-Engineering firm of Kistner, Curtis & Wright, which has been carrying on its main office activities in Los Angeles, California, for many years with branch offices in San Diego, California, and Los Alamos, New Mexico, has been reorganized into two separate firms. The new firms are now Kistner, Wright & Wright in Los Angeles, with project offices in San Diego, California and Los Alamos, New Mexico, and the firm of Kistner, Curtis & Foster in San Diego, California.

There is no change in the personnel of either firm, as the San Diego organization has operated, under Mr. Curtis, more or less independent of the Los Angeles office since 1946.

The former Los Angeles office is now known as Kistner, Wright & Wright, comprising a partnership of T. C. Kistner, H. L. Wright, architects, and W. T. Wright, structural engineer. The former San Diego office is now known as Kistner, Curtis & Foster, comprising a partnership of T. C. Kistner, R. R. Curtis, architects, and G. D. Foster.

Over the past ten years the former organization completed working drawings and specifications for buildings and structures totalling over $170,000.000 in construction cost. These included 540 projects for more than 70 school districts, the Salton Sea Base, numerous projects at Los Alamos, New Mexico, for the Atomic Energy Commission, projects for the Navy's Bureau of Yards and Docks at MCAS Cherry Point, North Carolina, MCAS El Toro, California, 12th Naval District, San Francisco, and development of the Master Jet Field at Miramar, San Diego, California.

One of Los Angeles' largest complete Architectural-Engineering firms, the organization has had an average employment of 280 persons, with a peak of 315 including architects and structural, mechanical, electrical, and civil engineers. It is an



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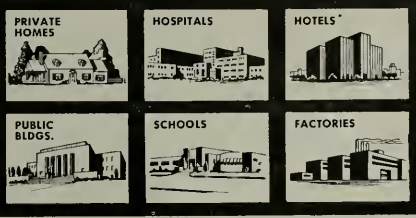

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HOUSING THE AGING CONFERENCE SCHEDULED

A three day conference has been scheduled by the University of Michigan on July 24-26, to consider the housing needs of healthy, chronically ill, confused, and disable older people living in urban and rural areas of the nation.

Among topics to be discussed at the Fifth Annual Conference on Aging are types of housing and living arrangements; architectural designs and costs; hygiene and safety standards; social and economic aspects of housing; and auxiliary services.

The conference is designed to serve as a forum for interchanging information and for getting action on the difficult problem of financing housing for the aging. It is directed to national, state, and local planners; physicians, nurses, and public health workers; industrial retirement counselors; welfare and social work personnel; architects, builders, realtors; safety and sanitary engineers; public and private investment and financing agencies; and directors of old age homes and their personnel.

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the Institute for Human Adjustment, Schools of Architecture, Business Administration, Social Work, Public Health, and the Medical School, Extension Service and Summer Session of the University of Michigan; the Michigan State Medical Society; the Committee on Aging and Geriatrics of the Federal Security Agency, Washington, D. C., and the Housing and Home Finance Agency, Washington, D. C.

Conference registration materials may be obtained by writing to Dr. Wilma Donahue, Institute for Human Adjustment, Room 1510, Rackham Bldg., Ann Arbor, Michigan.

ALASKA CONSTRUCTION CONTINUES ACTIVE

An invitation to all contractors to bid on an outside utilities project to cost over 5-million dollars has been issued by the Alaska District, Corps of Engineers, with headquarters in Anchorage.

This Alaskan Command contract calls for construction of all outside utilities to serve eighty-three 8-family row-type quarters, two 750-man concrete block barracks. It requires the construction of an addition to the existing temporary boiler plant; construction of railroad trackage, a temporary boiler plant and a cold storage building.

In addition there is the construction of a loop power line to the dock area, roads, drainage systems, parking areas and grading. There is also electrical work serving the area north of the runway, ACS toll center, POL pump house, and POL combination building.

Bids on this particular project will be accepted at offices in the New Washington Hotel, Seattle, until April 1, 1952.

CALIFORNIA REDWOOD ASSOCIATION ENLARGES ITS MEMBERSHIP

Frank C. Kilpatrick, president of the California Redwood Association, has announced the membership of the Warm Springs Redwood Company of Willits, California, of which Charles F. Wilson is president.

The Warm Springs Lumber Company was founded by Ray L. Wilson, father of the present president, at Warm Springs, Oregon, and represents one of the older firms in the West Coast lumber industry.

SCHOOL BONDS VOTED

Voters of the Acalanes High School District in Orinda (California) have approved a school bond issue of $1,500,000 for construction of new high school buildings.

Kump Associates of San Francisco are the architects.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

ARCHITECTURE OF THE OLD NORTHWEST TERRITORY. By Rexford Newcomb. The University of Chicago Press, 5750 Ellis Ave., Chicago 37, Ill. Price $20.00.

This is an interesting new book devoted by the author to a study of early architecture in Ohio, Indiana, Illinois, Michigan, Wisconsin and a portion of Minnesota. It contains many photographs of beauty and brilliance recording American architecture in the Old Northwest Territory, from the rough hewing of cabins out of virgin timber to the elaborate over-gilding of the Gothic Revival.

Through a series of magnificent photographs and explanatory text, Dean Newcomb traces the changes from the original styles to more native American forms and reflects the genius of the people — English, French, German, Scandinavian, and Scotch-Irish—who comprised the population of the area.

Dean Newcomb is professor of the history of architecture and Dean of the College of Fine and Applied Arts at the University of Illinois; a Fellow of The American Institute of Architects; the American Association for the Advancement of Science; and the Newberry Library. He has written numerous books on architecture in the United States.

PERSPECTIVE DRAWING. By J. C. Morehead & James C. Morehead, Jr. The Elsevier Press, 402 Lovett Blvd., Houston, Texas. Price $6.00.

Ever so often a new way of doing an old thing is developed, a new way so simple that you wonder, "why hasn't that been done before."

PERSPECTIVE DRAWING is just such type of book. An accurate, easy-to-understand technique for representing space on a flat surface that saves about half the time needed for the tedious, outmoded, classical manner of perspective has been presented by the authors.

The 45 degree-line method, developed at Carnegie Institute of Technology and The Rice Institute, has been employed to develop 1) the same facility for drawing three-point perspective as for two-point, 2) A quick method for enlarging an existing perspective, 3) The elimination of out-of-reach vanishing points, 4) An easy means for determining perspective detail, 5) One basic operation for all perspectives, and 6) Numerical tables for finding vanishing points.

A feature of the book is the fact that drawings are placed facing appropriate text.

HOW TO IMPROVE ENGINEERING-MANAGEMENT COMMUNICATIONS. By National Society of Professional Engineers, 1121 15th Street, Northwest, Washington. D. C. Price $2.00.

This report is a summary of the first of a series of four Executive Research Surveys begun in 1951 by the National Society of Professional Engineers, through its Professional Engineers Conference Board for Industry.

It pools the experience of more than 300 companies employing engineers, on the subject of "How to Improve Engineering-Management Communications." The purpose of the research program is to assemble and publish current information on engineering-management relations for the benefit of industrial employers of engineers and the engineering profession.

This is the first of a group of four reports to be published.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

370. SELECTION MANUAL FOR AIR DIFFUSERS. A new Selection Manual #40—1952 containing comprehensive technical data for simplifying choice of proper air diffusers in air conditioning systems has been announced by Anemostat Corporation of America. Now in its second revised edition, the Anemostat Manual contains a complete new section on Anemostat High Pressure Units for high pressure, high velocity systems. Generously illustrated with photographs, tables on performance

data ,and case examples, the manual shows how proper locations and correct number of required units are determined. A.I.A. 30J, sixty-four pages illus., 4/52.

371. ALTERNATE METHODS OF SCHOOL CONSTRUCTION. Structural Clay Products Institute has released a booklet summing up alternate methods of school construction which require less steel and other critical materials. This booklet has been distributed to leading educators and school officials. The booklet illustrates loadbearing masonry walls and interior clay tile walls. 10 pages illus., 4/9/52.

372. ASPHALT TILE COLOR CLASSIFICATION CHART. The Asphalt Tile Institute has just issued an up to date Color Classification Chart designed to clarify to the trade the various asphalt tile manufacturer's color designations. The new chart is a guide to show the commercial equivalents of the manufacturers' color lines which give the same color tone or effect. It was developed for the convenience of architects, builders, flooring contractors, and anyone who may have to select and specify asphalt tile. Some 28 colors are listed in the chart. It represents the complete color line of each manufacturer in the A. B. C and D Color Groups., 4/52.

373. SEISMIC BUILDING DESIGN. A new brochure covering the development and test results of wind and earthquake resistant diaphragms construction using Fenestra Building Panels. This booklet is the result of tests conducted by Consulting Engineer S. B. Barnes, Los Angeles, under the supervision of Professor Fred J. Converse, California Institute of Technology, for the Detroit Steel Products Company.

374. WESTERN PINE MOULDING PATTERNS. The Western Pine association recently announced standardization of 114 casing and base moulding patterns under the nomenclature of the WP series. Effective date for the standardization is June 1, 1952. A new publication, "Western Pine Moulding Patterns," illustrates each of the new patterns in full size details. Measuring 8½x11", the folder is punched for insertion in three ring binders. The standardization action was made in February at the Association's annual meeting and follows by two years standardization of 17 Western Pine paneling patterns. The action was taken by representatives of the more than 325 Western Pine member mills which produce the Western Pines and Associated Woods in 12 western states. G-22, sixteen pages illus., 4/52.

375. CONCRETE HARDENING AND DUSTPROOFING. A brochure covering the qualities of Lapidolith for concrete hardening and dustproofing is available. The properties of Lapidolith as a chemically active concrete hardening agent are fully described. Performance test data is included with charts and application specifications. A.I.A. 3-B-1, four pages, 4/52.

376. WALNUT VENEER TYPES. A new guide and set of standard specifications for the selection of walnut veneers has been released for architects, decorators, furniture manufacturers, and others who specify cabinetwoods for furniture or architectural woodwork. The booklet shows all principal figure types of American Walnut now available in quantity—some in hundreds of thousands, other types in millions of feet. Each of the numerous plates has a number, to be used in specifying that figure type. Thus the designer can order from the plywood supplier and he, in turn, can order from the veneer firm, without possibility of error. Photographs illustrate the variety of figures obtainable by the same method of cutting and by various methods of cutting. Twenty pages, illus., 3/52.

377. ACUSTI-LUMINUS CEILINGS. A brochure covering the installation and qualities of the Acusti-Luminus Ceilings manufactured by Luminous Ceilings, Inc. has been released. The brochure shows typical ceilings and covers complete details of this combination plastic, baffled washable luminous ceiling. The brochure also covers the west coast installations of this type ceiling. Four pages, illus., 3/52.

378. ANNEALED PERLITE AGGREGATES. A catalog covering the qualities and properties of Coralux Perlite aggregate has been released by F. E. Schundler & Company. Charts covering the surfacing of walls and their fire-ratings as well as specifications for applications are given completely. Eight pages illus., 9/51.

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370	371	372	373	374
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SAN FRANCISCO ARCHITECTURAL CLUB VISITS KRAFTILE PLANT

Thirty-eight members and guests of the San Francisco Architectural Club led by President Charles Dennis and Trustee Otto Hintermann, recently visited the Kraftile plant at Niles, California, where they toured the plant following a lunch at the famous International Kitchen as guests of the Kraftile Company.

Arrangements for the trip through the tile manufacturing plant were in charge of vice-president Joe Scoma of the Architectural Club, while Jim Crawford, vice-president, was the host for the occasion with Kraftile foremen serving as guides and explaining many phases of the company's manufacturing activities.

LOS ANGELES LIBRARY OF ARCHITECTURE AND ARTS

Reorganization of the Library of Architecture and Allied Arts, 3723 Wilshire Blvd., Los Angeles, has been completed under the direction of Mrs. Genie Alexander, librarian.

Several hundred new books, periodicals, pamphlets and handbooks have been added to the Library covering the fields of home buying and building, Church planning, city planning, commercial and industrial design, architectural history, modern design philosophy, landscape architecture interior design, and biographies of famous architects.

The Library is open from noon to 5 p.m., Monday through Friday, and Wednesday evening 7-11.

ENGINEERS JOINT COUNCIL SEND CONVENTION DELEGATES

The Engineers Joint Council of New York has announced it will send official delegates to the Third UPADI Congress in New Orleans on August 25-30.

Purpose of the UPADI, or Pan-American Union of Engineering Societies, is to provide an organization encompassing the engineering societies of both North and South America and to promote their activities on an international scale.

This year's Congress is under the leadership of Engineer Luis Giannattasio of Montevideo, Uruguay, with James M. Todd, former president of EJC and ASME in charge of arrangement in New Orleans.

NEW BARRACKS AND MESS HALL

Construction of a new barracks and mess hall to accommodate 1300 enlisted men has been started at the U. S. Naval Air Station at Moffett Field.

Cost of the project which will include a number of changes to present installations at the field will exceed $1,000,000 according to U. S. Navy Public Works officials.

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor & Material Bond(s) only, $5.00 per $1000 on contract price

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.

Glazed Structural Units—
Clear Glazed—
2 x 6 x 12 Furring ..... $1.60 per sq. ft.
4 x 6 x 12 Partition ..... 1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition ..... 2.25 per sq. ft.
For colored glaze add ..... .30 per sq. ft.

Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Cartage—Approx. $10.00 per M.
Paving—$75.00.

Building Tile—
8x5½x12-inches, per M $139.50
6x5½x12-inches, per M 105.00
4x5½x12-inches, per M 84.00

Hollow Tile—
12x12x2-inches, per M $146.75
12x12x3-inches, per M 156.85
12x12x4-inches, per M 177.10
12x12x6-inches, per M 235.30
F.O.B. Plant

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll $5.30
2 ply per 1000 ft. roll 7.80
3 ply per 1000 ft. roll 9.70
Brownskin, Standard 500 ft. roll 6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll 7.00

Sheathing Papers—
Asphalt sheathing, 15-lb. roll $2.00
30-lb. roll 2.79
Dampcourse, 216-ft. roll 2.95
Blue Pasteboard, 60-lb. roll 5.10

Felt Papers—
Deadening felt, ¾-lb., 50-ft. roll $3.23
Deadening felt, 1-lb. 3.79
Asphalt roofing, 15-lbs. 2.00
Asphalt roofing, 30-lbs. 2.79

Roofing Papers—
Asphalt Rfg., 15 lb. $2.09
Standard Grade, 108-ft. roll, Light 1.87
Smooth Surface, Medium 2.18
Heavy 2.56
M. S. Extra Heavy 2.96

BUILDING HARDWARE—

Sash cord com. No. 7 ..... $2.65 per 100 ft.
Sash cord com. No. 8 ..... 3.60 per 100 ft.
Sash cord spot No. 7 ..... 3.65 per 100 ft.
Sash cord spot No. 8 ..... 3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.
1-Ton lots, per 100 lbs $3.75
Less than 1-ton lots, per 100 lbs $4.75
Nails, per keg, base $11.80
8-in. spikes 11.80
Rim Knob lock sets 1.80
Butts, dull brass plated on steel, 3½x3½ ..... .76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88
Cement—		
Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.		
Per Sack, small quantity (paper)		$1.05
Carload lots, in bulk per bbl		2.79

Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Medusa White: 1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards*	$12.00
10 to 100* yards	11.00
100 to 500 yards	10.50
Over 500 yards	10.30

* Delivered to site.

CONCRETE BLOCKS—

	Haydite	8a-salt
4x8x16-inches each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	—	.60

Haydite Aggregates—
¾-inch to ⅜-inch, per cu. yd. $7.25
⅜-inch to ⅛-inch, per cu. yd. 7.25
No. 6 to 0-inch, per cu. yd. 7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock, will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	25/32x2¼	½x2	⅜x2	¼x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
25/32 x 2¼	390.00	381.00
25/32 x 2¾	375.00	355.00
25/32 x 3¼	395.00	375.00
33/32 x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

25/32 x 2¼ First Grade	$390.00
25/32 x 2¼ 2nd Grade	365.00
25/32 x 2¼ 2nd & 3tr. Grade	375.00
25/32 x 2¼ 3rd Grade	240.00
25/32 x 3¼ 3rd & 3tr. Jtd. EM	380.00
25/32 x 3½ 2nd & 3tr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass ..... $ .30 per □ ft.
Double Strength Window Glass ..... .45 per □ ft.
Plate Glass, ¼ polished to 75 ..... 1.60 per □ ft.
75 to 100 ..... 1.74 per □ ft.
¼ in. Polished Wire Plate Glass ..... 2.35 per □ ft.
¼ in. Rgh. Wire Glass ..... .71 per □ ft.
¼ in. Polished Wire Plate Glass ..... 2.00 per □ ft.
¼ in. Rgh. Wire Glass ..... .64 per □ ft.
⅛ in. Obscure Glass ..... .40 per □ ft.
3/32 in. Obscure Glass ..... .64 per □ ft.
⅛ in. Heat Absorbing Obscure ..... .58 per □ ft.
¼ in. Heat Absorbing Wire ..... .86 per □ ft.
Glazing of above additional $.15 to .30 per □ ft.
Glass Blocks, set in place ..... 3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

PAINTING (26)

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W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim

FORDERER CORNICE WORKS *(24)

PACIFIC COAST AGGREGATES, INC. *(11)

Exteriors

PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio

THE SCOTT COMPANY *(17)

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows

DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGEGATES, INC. *(11)

Fire Doors

DETROIT STEEL PRODUCTS COMPANY

Skylights

DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

KRAFTILE COMPANY *(33)

SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)

HERRICK IRON WORKS *(33)

SAN JOSE STEEL CO. *(33)

COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 740 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800

GLADDING, McMEAN & CO. *(3)

KRAFTILE
Niles, Calif.: NIles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

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WYERHAEUSER SALES CO.
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St. Paul, Minn.
Newark, N. J.

Treated Timber

J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)

GLADDING, McBEAN & CO. *(3)

KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53					
BRICKLAYERS	3.25	3.25	3.15	2.85	3.25	3.00	3.00	3.25	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	1.75	1.75	1.75	1.75	1.75
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.20	2.20	2.20	2.20	2.20
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.28	2.28	2.28	2.28	2.28
ELECTRICIANS	2.75	2.60	2.60	2.75	2.50	2.50	2.625	2.60	2.50	2.50	2.50	2.50	2.50
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.00	2.00	2.00	2.00	1.96
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.255	2.255	2.255	2.255	2.255
REINF. RODMEN	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.28	2.28	2.28	2.28	2.28
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.30	2.30	2.2375	2.30	2.30
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.50	2.50	2.50	2.50	2.50
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.40	2.40	2.20	2.40	2.40
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.33	2.33	2.33	2.33	2.33
PLASTERERS	3.00	3.15*	3.15	2.75	3.00	3.00	3.125	3.00*	2.50	2.75	2.50	2.50	2.50
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4325	2.875	2.875	2.50	2.50	2.20	2.50	2.25

* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

MOLES AWARD RECOGNITION TO WEST COAST CONTRACTOR

Stephen D. Bechtel, president of Bechtel Corp., San Francisco, and Charles B. Spencer, president of Spencer, White & Prentis, Inc., New York construction firm, were honored at The Moles' 12th Annual Award Dinner in New York recently for "outstanding achievement in construction." The award is considered the highest recognition given for service to the construction industry.

In making the Non-Member award to Bechtel, Adm. Ben Moreel, chairman of the Board of the Koppers Co., declared that he was being honored as a "citizen, engineer, contractor, in recognition of his illustrious accomplishments during the war and his notable leadership in the fields of oil refining, pipelines, dams and shipbuilding construction."

The Society, comprising leaders in tunneling and heavy construction work, also presented honorary membership to Gen. Lucius D. Clay, who made the principal address of the evening.

INTERNATIONAL TERMINAL BUILDING RISES AT SAN FRANCISCO AIRPORT

Construction of the new $6,784,000 San Francisco International Terminal Building at San Francisco's Municipal Airport is progressing according to schedule, despite somewhat adverse weather conditions.

The Terminal Building forms part of the new terminal facilities at the huge airport and is designed to initially accommodate three million passengers in and out per year, and to ultimately handle ten million passengers per year.

The building was designed under direction of the Public Utilities Commission of the City and County of San Francisco, with G. D. Burr, design engineer; W. P. Day, architect, and Clinton Construction Company, general contractors.

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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

NEW INTERMEDIATE SCHOOL, Burlingame, San Mateo County. Burlingame Elementary School District, owner. 18 classrooms, administration, shop, home-making, cafeteria, and auditorium, $796,107. ARCHITECT, Hertzka & Knowles, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR, Theo G. Meyer & Sons, San Francisco.

SEWAGE TREATMENT PLANT, Folsom, Sacramento County. City of Folsom, owner. $131,988. STRUCTURAL ENGINEER, L. Cedric Macabee, Palo Alto. Reinforced concrete construction. GENERAL CONTRACTOR, Affiliated Engineers & Contractors, Sacramento.

SANGRE DE CRISTO HOMES, Pueblo, Colorado. Housing Authority of the City of Pueblo, owner. 224 dwelling units, 1 and 2 stories, $1,689,000. ARCHITECT, Huntington & Brelsford, Denver, brick and pumice block construction. GENERAL CONTRACTOR, Mead & Mount Construction Co., Denver.

LOW RENT HOUSING PROJECT, Eureka, Humboldt County. Housing authority of the City of Eureka, owner. 100 units, $718,000. ARCHITECT, Frank T. Georgeson, Eureka. 38 buildings, frame and stucco construction, 1 and 2 story. GENERAL CONTRACTOR, Robt. McCarthy Co., San Francisco.

FACTORY & OFFICE BUILDING, Los Angeles, Los Angeles County. Sherman Paper Products Corp. of Calif., owner. 280 x 340 ft., boiler wing, office wing, $367,000. ARCHITECT, Vincent Palmer, Los Angeles. Reinforced cement and block wall construction, wood roof trusses, concrete slab floor, steel sash, composition roofing, sprinkler system, metal doors. GENERAL CONTRACTOR, G. O. Gartz Construction Co., Los Angeles.

UNION ELEMENTARY SCHOOL ADDITION, Campbell, Santa Clara County. Union Elementary School District, owner. 5 classrooms, 2 kindergartens, multi-purpose, administration, kitchen and toilet rooms, $268,571. ARCHITECT, Higgins & Root, San Jose. Frame and stucco construction. GENERAL CONTRACTOR, W. R. Kalsched, San Jose.

RIO HONDO SCHOOL, El Monte, Los Angeles County. El Monte School District, owner. 20 classrooms, 3 kindergartens, shop building, wood and clothing unit, administration building, multi-purpose room, 44,100 sq. ft., $523,709. ARCHITECT: Kistner, Curtis & Wright, Los Angeles. 1 story frame and stucco construction, composition roofing, concrete floor, asphalt tile floor, wood sash, acoustical work, ceramic tile, painting, radiant panel heating. GENERAL CONTRACTOR, E. F. Wopschall, Pasadena.

VISTA ELEMENTARY SCHOOL, Vista, San Diego County. Vista Elementary School District, owner. 9 classrooms, kindergarten, multi-use room, 26,350 sq. ft., $385,460. ARCHITECT, Maynard Lyndon, Los Angeles. Frame and stucco construction, composition roofing, cement and asphalt tile floors, acoustic ceilings, steel trusses, metal toilet partitions. GENERAL CONTRACTOR, Donald & McKee, Redlands.

ST. JOSEPH HOSPITAL ADDITION, Burbank, Los Angeles County. St. Joseph Hospital, owner. 4 story and basement, 129 beds, $154,208. ARCHITECT: John W. Maloney, Seattle. Reinforced concrete construction, structural steel, asphalt tile and terrazzo floors, built-up roofing, insulation, metal sash, elevators, air conditioniing. GENERAL CONTRACTOR, Pozzo Construction Co., Los Angeles.

CONVENT, Oakland, Alameda County. Roman Catholic Archbishop of S. F., owner. St. Augustine Parish. $97,165. ARCHITECT: Arnold and Francis Constable, Sausalito. 2 story frame and stucco construction. GENERAL CONTRACTOR: Anderson-Haglund, Inc., Oakland.

JAMES T. O'DOWD HIGH SCHOOL ADDITION, Oakland, Alameda County. Roman Catholic Archbishop of S. F., owner. $415,000. ARCHITECT, Blanchard & Maher, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Carrico & Gautier, San Francisco.

ELEMENTARY SCHOOL, San Diego, San Diego County. San Diego Unified School District, owner. 4 1-story units, assembly and cafeteria room, administrative offices, 9 classrooms, 2 kindergartens, $309,640.

ARCHITECT, William R. Lodge, San Diego. Frame and stucco construction, composition roofing, slab and asphalt tile floors, radiant and hot water heating, insulation, metal lath, steel sash, steel or wood roof trusses. GENERAL CONTRACTOR, C. A. Larsen, San Diego.

ALAMITOS SCHOOL, Garden Grove, Orange County. Garden Grove Alamitos School District, owner. 6 classrooms, cafeterium, kindergarten, shop and home-making department, $324,850. ARCHITECT, Maynard Lyndon, Los Angeles. Frame and stucco construction, composition roofing, cement slab and asphalt tile, insulation steel sash, radiant heating. GENERAL CONTRACTOR, O. L. Dahl, Long Beach.

BANK BUILDING, Downey, Los Angeles County. Pacific Southwest Realty Company, owner. 1 story and mezzanine floor, 7931 sq. ft., $70,000. ARCHITECT, Kenneth S. Wing, Long Beach. Frame and stucco, brick and ceramic veneer construction, composition roofing, steel and aluminum sash, concrete slab, wood floor mezzanine, air conditioning. Concrete vault rooms. GENERAL CONTRACTOR, Beggs Construction Co., Los Angeles.

CAPUCHINO HIGH SCHOOL ADDITION, San Bruno, San Mateo County. San Mateo High School District, owner. Acedemci building, music room, garage covered corridors, $433,331. ARCHITECT: Masten & Hurd, San Francisco; frame and stucco construction. GENERAL CONTRACTOR: Midstate Construction Co., San Francisco.

HEALTH & WELFARE BUILDING, San Mateo, San Mateo County. County of San Mateo, owner. Community hospital, $502,903. ARCHITECT: D. D. Stone & Lou Mulloy, San Francisco. 1½ story, frame and stucco construction, 35,000 sq. ft. GENERAL CONTRACTOR: Hedahl-Martin Co., Redwood City.

SOCIAL HALL & SUNDAY SCHOOL, Watsonville, Santa Cruz County. Methodist Church, owner. $100,000. ARCHITECT: Easterly-Ellenwood & Easterly, Watsonville. Concrete block and frame construction. OWNER BUILDS.

OFFICE BUILDING, Burlingame, San Mateo County. Wm. Volker & Co., owner. $100,000. ARCHITECT: Albert W. Kahl, San Mateo. 1 and 2 story frame and stucco construction, some brick veneer, aluminum sash, acoustical ceilings. GENERAL CONTRACTOR: Morris Daley, Burlingame.

FACTORY BUILDING, South San Francisco, San Mateo County. Pacific Screw Products Co., owner. $75,000. ARCHITECT, Albert W. Kahl, San Mateo. 1 story, concrete block, wood roof trusses. GENERAL CONTRACTOR: W. C. Akard, San Francisco.

GOLDEN HOTEL REMODEL, Reno, Nevada. Golden Hotel, owner. $200,000. ARCHITECT: Edward H. Fickett, Los Angeles. Altering lobby, casino, lounges, restrooms, new snack bar, coffee shop and barber shop. GENERAL CONTRACTOR: W. H. Wine Construction Co., Reno.

NEW GRAMMAR SCHOOL, Moss Landing, Monterey County. Moss Landing Union Elementary School District, owner. Eight classrooms, administration, library, kindergarten, multi-purpose, kitchen and toilet rooms, $349,000. ARCHITECT: Wm. H.

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New Schools

From plans by Arthur D. Janssen and Associates, we are building new units to the following schools located in San Mateo County . . .

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Rowe, San Francisco; Jerome Kasavan, Salinas. Frame and stucco coonstruction, C. M. P. Granted. GENERAL CONTRACTOR: G. W. Davis, Watsonville.

CHURCH, Santa Venetia, Marin County. Roman Catholic Archbishop of San Francisco, owner. $63,563. ARCHITECT: Arnold & Francies Constable, Sausalita. Frame & stucco construction. GENERAL CONTRACTOR: Carrier & Gautier, San Francisco.

SUPER MARKET & STORE BUILDING, Lafayette, Contra Costa County., C. Garibetta, owner. 7 stores and market, $93,770. ARCHITECT: Herbert Vaughn Brooke, Walnut Creek. 1 story, 100 x 189, concrete block and frame construction, composition and tile roof. GENERAL CONTRACTOR: L. C. Rassi, Diablo.

FACTORY ADDITION, Richmond, Cantra Costa County. Berkeley Scientific Corp., owner. $100,000. STRUCTURAL ENGINEER: R. H. Cooley, Oakland. 1 story, 100 x 200 concrete block & wood roof. GENERAL CONTRACTOR: John J. Moore Co., Oakand.

SALES & SERVICE BUILDING, Gridley, Butte County. Sierra Tractor & Equipment Co., owner, $96,652. ENGINEER: Clair A. Hill, Redding. 1 story, 70 x 150, frame & stucco construction. GENERAL CONTRACTOR: Berlinger Corp., Chico.

YOUTH CENTER, Douglas, Arizona. Church of the Immaculate Conception, owner. 10 rooms, 104 x 84 ft., $74,825. ARCHITECT, Lloyd Le Raine Pike, Phoenix. 1 story, built-up roof, cement and wood floors, suspension heaters, evaporation coolers, metal lath, insulation, reinforcing steel, steel sash, wood trusses.

EDUCATION BUILDING, Vallejo, Solano County. First Baptist Church, owner, $95,-000. ARCHITECT: Donald Powers Smith, San Francisco. 3 story, reinforced concrete construction, type-1. GENERAL CONTRACTOR: J. A. Bryant, Vollejo.

RESIDENCE, Hillsborough, San Mateo County. Rudolf Pabst, owner, 12 rooms, $146,-000. ARCHITECT: Bertram Weber, Chicago; ASSOCIATE ARCHITECT: Sharp & Brown, San Mateo. 2 story, 8,000 sq. ft., frame and stucco and some brick construction, swimming pool and bathhouse. GENERAL CONTRACTOR: Charles J. Pedersen, Inc., Burlingame.

ANIMAL SHELTER, San Mateo, San Mateo County. Peninsula Humane Society, owner. $74,342. ARCHITECT: James H. Mitchell, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Marris Daley, Burlingame.

MEDICAL DENTAL BUILDING, Palo Alto, Santa Clara County. Medical Arts Building, owner. 7 suites of offices, $123,000. ARCHITECT: Morgan Stedman, Palo Alto. 1 story, frame and stucco construction. GENERAL CONTRACTOR: Schmalling & Stenbit, Palo Alta.

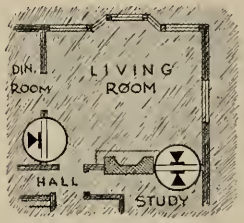
EXHIBITION HALL & COMMUNITY BUILDING, Los Banos, Merced County. Spring Fair & Livestock Assoc., owner. To seat 3,000, $139,493. ARCHITECT: Walter Wagner, Fresno. Concrete block construction, 80 ft. laminated wood arch roof trusses. GENERAL CONTRACTOR: T. Falasco, Los Banos.

ADMINISTRATION BUILDING, RECEIVING & TREATMENT BUILDING, AUDITORIUM & LIBRARY BUILDING, Talmage, Mendocino County. State of California, owner. State hospital, $2,115,726. STATE ARCHITECT: Anson Boyd, Sacramento. Structural steel reinforced concrete construction, steel sash, composition roofing, hollow tile and metal stud partitions, tile and terrazza floors, passenger and freight elevators. GENERAL CONTRACTOR: Namellini Construction Co., Stockton.

STORE AND OFFICE BUILDING, Auburn, Placer County. Cascade Realty Co., owner. 4 stores and 5 offices, $75,000. ARCHITECT: Herbert Goodpastor, Sacramento. 2 story, 35 x 80, reinforced concrete and frame construction. GENERAL CONTRACTOR: G. S. Herrington, Auburn.

NEW ELEMENTARY SCHOOL BUILDING, Five Points, Fresno County. Westside Elementary School District, owner. 14 classrooms, administration, multi-purpose, kitchen and and toilet rooms, $582,216. ARCHITECT: Phillip Buckingham, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: Larsen-Ratto Construction Co., Fresno.

How to place telephone outlets to protect home's future beauty



You protect the beauty of home interiors by providing for extra telephone outlets in the plans. Current building practices, such as the reduction in size or omission of inside trim, make future installation of telephone facilities difficult. But concealment of facilities is assured when built-in conduit is indicated in blueprints.

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IN THE NEWS

NAMED TO NATIONAL HOME BUILDERS COMMITTEE

Fritz Burns of Los Angeles has been appointed Chairman of the National Housing Policy Committee of the National Association of Home Builders.

Other Western appointments made by Alan E. Brockbank, organization president, includes Frank Burns, Denver, Colorado, Chairman of the Mortgage Finance Committee; Earl W. Smith, Berkeley, California, Chairman of the Building Methods and Materials Committee; Albert LaPierre, Seattle, vice chairman of the Joint NAHB-Producers Council Committee; Albert Balch, Seattle, Chairman of the Land Planning Committee; David Bohannon, San Francisco, Chairman of the Committee to Work with Lumber Manufacturers; George Streit, Pomona, California, vice-chairman Small Volume Building Council; and Paul Burkhard, Glendale, California, Chairman of the Regional Vice Presidents' Council.

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LOS ANGELES AREA GETS NPA PERMITS

The NPA in Washington has approved construction of 15 commercial projects in the Los Angeles area including the $11,000,000 Beverly-Hilton Hotel.

Included in the approval was two court houses, a State home in Norwalk, a county parking lot, twenty-three Los Angeles water projects and two sewage projects.

The action releases materials for projects with delivery after July 1st. Demolition, site clearance, excavation and other preparatory work may start at once.

NEW BANK FOR SAN FERNANDO

Work has started on a new bank building for the newly organized Sun Valley National Bank of Los Angeles at 8125 San Fernando Road.

Architect Charles Goldberg has designed the building which will have an all grill facing toward the street with a brick rear and side walls. A large parking lot has been provided with entrances into the bank from either the front street or the rear parking area.

NEW SCHOOL FOR NEWMAN, CALIFORNIA

Bonds have been voted by the people of the Newman Elementary School District, for the construction of an addition to the Newman Elementary School costing $150,000.

The project designed by Architect William Corlett of San Francisco, will include a combined auditorium and gymnasium and will be of frame and stucco construction.

DEPARTMENT OF METALLURGY SOUTHWEST RESEARCH INSTITUTE

An upsurge of industrial scientific research in the field of metallurgy has brought about the establishment of a department of metallurgy at Southwest Research Institute, San Antonio, Texas, according to Dr. Harold Vagtborg, Institute president.

Appointed to head the department is Dr. Robert J. Anderson, who was awarded a Doctor of Science degree by the Massachusetts Institute of Technology, and who has had 35 years experience in industrial, government and educational fields.

The department is undertaking industrial metallurgical research in foundry practice, process metallurgy, and physical metallurgy, in addition to problems in metal economics.

SCHOOL BONDS APPROVED

Voters of the Liberty Union High School District at Brentwood (Contra Costa County) recently approved a special school bond election to raise $600,000 for the construction of an addition and some remodelling to the Brentwood High School.

Young & Lloyd of Albany are the architects.

ENGINEER IS ELECTED

J. R. Newville of Los Angeles has been elected president of the Civil Engineers & Land Surveyors Association of California at the organization's recent annual meeting.

He succeeds Leo L. Strecker.

SPEAKS AT FOREST FIRE PREVENTION CONFERENCE

E. T. F. Wohlenberg, vice president and general manager of the Masonite Corpn. manufacturing plant in Ukiah (California), and president of the Redwood Region Conservation Council was one of the principal speakers at a joint meeting of the California State Board of Forestry and the California Fire Prevention Committee recently held in Sacramento.

Wohlenberg's subject was "The Dependency of Our Basic Natural Resources upon Protection from Wild Fire."

AMERICAN SOCIETY TESTING MATERIALS

The American Society for Testing Materials has changed its Annual Meeting dates from June 22-26, to June 29-July 3, at the request of the Department of Commerce and State of the Federal Government.

The annual meetings will be held in Atlantic City, N. J.

NEW RIVERSIDE CAMPUS SOON

Release of steel and other critical materials for four key buildings and utilities on the new Riverside campus of the University of California assures the community that classes will open there in the fall of 1953.

According to Dr. Gordon S. Watkins, provost of the Riverside campus, calls for bids and awarding of contracts will proceed immediately.

We are proud to add the Hoover and Goodwin Schools, designed by Arthur D. Janssen and Associates, to our list of major school buildings completed or under construction throughout the State of California.

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Authorized for construction are the Physical Sciences Building, Social Science Building, the U.C.R. Library, and the Biological Sciences Building.

RICHARD WALBERG ON SOUTH AMERICAN TOUR

Richard Walberg of the San Francisco construction firm of Swinerton & Walberg, is touring South America with a group of U. S. financial and industrial executives.

He reports progress in architectural design and construction methods is "amazing," particularly the tremendous heights reached by reinforced concrete structures in Brazil.

SCHOOL BONDS ARE VOTED

The San Leandro Unified School District in Alameda county recently approved a special school bond issue of $4,250,000 for the construction of a new Elementary and a new Junior High School in San Leandro.

Work on the two new buildings will start at once.

INDUSTRIAL FINISHING EXPOSITION OF 1952

More than 100 new products will be shown in the greatest array of industrial finishing services and products ever displayed under one roof at the Industrial Finishing Exposition of 1952 in Chicago on June 16 through 19.

The show will be held in Chicago's International Amphitheatre and is being sponsored by the American Electroplaters' Society, a technical society composed of more than 5,500 men and women.

SANTA BARBARA VA OFFICE CLOSED

The Veterans Administration offices located at 735 State Street in Santa Barbara have been closed and all matters handled by the office are now being cleared through the Los Angeles VA offices, reports L. C. Chapman, manager of the L. A. offices.

Personnel of the Santa Barbara office were given option of transfer to other VA offices or termination of employment.

BONDS VOTED FOR HIGH SCHOOL

The Hayward Union High School District has authorized architects Anderson & Simonds of Oakland to proceed with plans for the construction of a new High School in San Lorenzo, following approval of a $3,000,000 school bond issue.

First unit of the new school, which will be of frame and stucco construction, will cost approximately $600,000.

ARCHITECT SELECTED

Architect Gordon Stafford of Sacramento has been commissioned by the Sacramento Board of Education to design a new Junior High School building for Sacramento.

The new structure will be designed to accommodate 1100 students.

C. LAWRENCE WARWICK DIES SUDDENLY

C. Lawrence Warwick, executive secretary, American Society for Testing Materials, and its administration head since 1919, died suddenly on April 23, shortly after presiding at a dinner in Philadelphia honoring the retiring Treasurer of the Society.

Warwick had been active in the Society since 1909 when he graduated from the University of Pennsylvania in civil engineering.

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LOUIS BODMER, A.I.A., ARCHITECT

JUNE

1952

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• ARCHITECT AND ENGINEER

Vol. 189 No. 3

ARCHITECTS' REPORTS—Published Daily

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COVER PICTURE

SAN DIEGO
FEDERAL SAVINGS &
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Most modern building constructed in downtown San Diego in the past quarter of a century.

Designed by Architect Louis Bodmer, AIA, to serve specific need of owner in relationships to serving public.

For complete details see Page 10.

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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. EDITORIAL NOTES .

GOOD OLD DAYS

Home buyers today get a much better value for their housing dollars than home buyers of a generation ago.

Today's new home buyer now takes for granted many items of standard equipment which were either undeveloped or too expensive a few years ago. Luxury fixtures of yesterday are commonplace today. But so gradual and consistent has been the evolution in home improvement and construction that its constant progress is not apparent.

World War II research resulted in many scientific advances and the appearance of many new products which have contributed directly or indirectly to the betterment of today's home.

Today's house is more professionally designed and is being built today by a responsible, progressive home building industry.

The last twenty years has seen the widespread advent of mass produced economy houses and neighborhood development programs, due to the demands of a rapidly expanding U. S. population and the defense program which has hastened the development of streamlined, economic construction methods for low cost housing under private enterprise system and leadership.

* * *

The federal personal income tax was adopted in 1913 with rates ranging from 1 to 7 per cent. Today's rates range from 22.2 to 92 per cent. The total tax burden (direct, hidden, federal, state, local) now represents about 35 per cent of the average income.

* * *

CHAMBERS BUILD BETTER CITIES

The obligations of local chambers of commerce in building better American cities and towns was emphasized by D. A. Hulcy of Dallas, Texas, who recently completed his term as president of the Chamber of Commerce of the United States, a national federation of more than three thousand businessmen's organizations.

"I cannot remember a time when our chambers were so well managed, so alert and so active. But we need still more active interest by business leaders. We need the service of leaders who personify business as a good neighbor in a town that is growing and developing. We need men who personify the American economic system as a warmly human institution based on individualism and community cooperation.

"There is no community in America that cannot be made a better place to live. The backdrop for it exists. Chambers of commerce have successfully launched hospitals, have created playgrounds, reconstructed school systems, have even built colleges and have actually created cities.

"Initiative and daring are the hallmark of success, and the greatest successes always have been where businessmen were unsparing with their talents in giving community service.

"America did not become the Samson among the world powers by feudal direction from the top down. America is a creation of the bottom-up principle.

* * *

"In 1925 the average automobile lasted only 6.5 years and ran about 26,000 miles in its lifetime. By 1948 the average scrapped automobile had run 120,000 miles and was 13.6 years old."

* * *

DECENTRALIZED

Governor J. Bracken Lee of the State of Utah, long a crusader for decentralized government, has come up with a suggestion that all federal taxes should be eliminated and that the national government should derive its financial support solely from assessments against the forty-eight states of the union, and territories, on a basis of per capita income.

Gov. Lee admits his proposal is a long range one, but that citizens should make an initial start towards its eventual accomplishment by reducing demands for government spending.

"Perhaps unwittingly but nevertheless very really, we have become the silent partner of a few greedy, power-hungry, political adventurers seeking personal power and gain," Gov. Lee contends, however, in his moral crusade against corruption and centralized government, he fails to offer a formula for localized representatives of the people who might bring their State to the verge of profound deterioration in moral standards of government.

* * *

President Truman's seizure of the steel industry will probably go down in history as one of the most high-handed acts committed by an American President.

* * *

CORRECTION

In connection with the illustrated article entitled "Churches Can Be Different", appearing in the April issue of ARCHITECT & ENGINEER magazine, in which a number of outstanding Church structures of the West Coast were featured, an error in architectural credit appeared.

The caption on Page 12, and reference in the story on Page 16, should have read Lloyd Wright and not Frank Lloyd Wright. Architect Lloyd Wright is the son of architect Frank Lloyd Wright, and was the architect for the Wayfarers Chapel, Portuguese Bend, Rancho Palos Verdes, California.

NEWS and COMMENT ON ART

CALIFORNIA SCHOOL OF FINE ARTS SUMMER SCHOOL

Registration for the California School of Fine Arts, 800 Chestnut Street, San Francisco, summer session opens June 30th. The session closes August 8th.

Of special interest to artists and laymen alike will be a course entitled Visual Communications which will be given by school director Ernest Mundt.

Another scheduled course is Arts in Architecture, a cooperative workshop sponsored by the A.I.A., Artist's Equity, and the CSFA.

CALIFORNIA PALACE OF THE LEGION OF HONOR

Thomas Carr Howe, Jr., director of the California Palace of the Legion of Honor, Lincoln Park, San Francisco, calls attention to the new exhibition of prints, Man At Work, which is currently being shown and presents man in the pursuit of his various trades and occupations.

The exhibition has been arranged into five sections, The Professional Man, The Tradesman, The Salesman, The Agriculturist, and Diverse Pursuits. Supplemental to the exhibition are additional prints in the Study Room of the Achenbach Foundation, adjacent to the Foundation's Gallery.

This exhibition of Man At Work is to be followed by a presentation on Approaches To Leisure which will open at the Gallery on July 19th.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, is presenting a number of exhibits and events for June including:

Paintings by Gyorgy Kepes, Paintings by Erle Loran and Jack Shadbolt, Studies For A Chapel by Ernest Born, Landmarks in Photography an American Federation of Arts Exhibition, Quebec Painters, and Jewelry by Peter Macchiarini, Vera Allison and Irena Bryner.

The special Exhibit of The Art of Henri Matisse will be continued through July 6th.

Included among the special events is the Sun-

(See Page 31)

SAN FRANCISCO MUSEUM OF ART
War Memorial Building

FLOWERS, OIL

13 x 9 inches

FRENCH

By HENRI MATISSE
(1869-)

A Harriet Lane Levy bequest to the San Francisco Museum of Art.

JOINT INFORMATION COMMITTEE

AMERICAN INSTITURE OF ARCHITECTS and THE PRODUCERS COUNCIL, INC.

At the meeting held April 10th in Cambridge at the Massachusetts Institute of Technology a progress report was submitted to the Subcommittee on the Card File or Loose-Leaf Specification Service. The ARCHITECT AND ENGINEER has again been given the opportunity of releasing this report to the construction industry on the West Coast and will quote from the minutes of the Joint Committee of The American Institute of Architects and The Producers' Council, Inc.

"In the absence of Mr. Carl J. Ebert, the secretary distributed copies of the 'Preliminary Analysis by the Construction Specifications Institute, Inc.', of a Proposed Specification Service being presently considered by the JOINT COMMITTEE OF THE AMERICAN INSTITUTE OF ARCHITECTS AND THE PRODUCERS' COUNCIL, INC.

"The report was reviewed in detail by the committee followed by a general discussion as to the feasibility of the proposed service, and as to the financing involved in its preparation, distribution, continuing review and revision.

"While it was the feeling the subject required further study and amplification, before making a report to the board of directors of the Institute, the following motion was unanimously adopted:

" 'Resolved: That the thanks of The Joint Committee be expressed to those responsible for the preparation of the Preliminary Analysis by the Construction Specifications Institute, Inc., of a proposed specification service being presently considered by the JOINT COMMITTEE OF THE AMERICAN INSTITUTE OF ARCHITECTS AND THE PRODUCERS' COUNCIL, INC. which the committee believes describes a comprehensive and feasible type of a specification service of value to the Architect. The Joint Committee recommends the report be amplified to include, in addition to the basic material contemplated by the service, reference to supplemental data as furnished by Trade Associations and individual Producers of building materials.'

"The Joint Committee further recommends that sample cards, or Loose-Leaf pages, be prepared by the special sub-committee to illustrate basic specification material related to a typical product, with cards or pages to illustrate accompanying specification data, related to the same material, as furnished by a Trade Association and an individual Producers of such material.

"The Joint Committee is of the opinion it may be seriously questioned whether the allotment of funds to underwrite the preparation of the basic specification material could be secured from the representatives of industry; it believes, however, that Trade Associations and individual Producers would be inclined to enter their specification material, at a price, in an established Specification Service.

"The Joint Committee recommends the special subcommittee restudy the probable costs involved in the preparation of the basic material, its distribution and continuing review and revision.

"Having determined such costs and the charge to subscribers of the Service, both as to the original basic material, and a continuing yearly charge, the committee suggests that a survey be conducted by The Institute to determine the number of Architects who would subscribe to the Service.

"In this connection it might be determined how many subscribers would make an immediate partial or complete advance payment, as a means of financing, in part at least, the preparation of the basic material.

"Professor Voss expressed the opinion construction techniques are moving so rapidly as to make requirements difficult and he would publish a format, and let industry formulate recommended specifications."

The above resolution is extremely encouraging since it shows definite and continued progress towards some final constructive action in establishing a Uniform Specification Procedure. The most encouraging aspect is the meeting of the financial question and pointing out that a realistic answer must be found to initiate this service. Also the realization that producers and trade associations should be allowed to provide material is an important step. Summing it all up from the reports to date it seems that now there is positive action being taken and the program will be an actuality.

NOTE: This news space is being contributed by ARCHITECT & ENGINEER Magazine to the JOINT INFORMATION COMMITTEE representing the Northern California Chapter of The American Institute of Architects and the Northern California Chapter of the Producer's Council, Inc., and is available to this Committee for the purpose of bringing to the attention of leaders within the Construction Industry various phases of the Architectural profession and building materials industry procedures for general consideration and comment. Your "ideas" and any suggestions for the better pooling of thoughts along these lines should be sent to "Joint Information Committee, c/o The Architect & Engineer. 68 Post Street, San Francisco," where they will be immediately forwarded to proper committee members.

Photograph Courtesy Bethlehem Pacific Coast Steel Corporation

John Wells, Photographer

THOMSEN & WILSON, Architects

ENGINEERING FEATURES

NEW OFFICE BUILDING

METROPOLITAN LIFE INSURANCE CO.

San Francisco, California

By HERBERT L. LYELL
Designer with H. J. Brunnier, Consulting Engineer

The Metropolitan Life Insurance Company Building in San Francisco is composed of a series of additions to a small central building which was built facing Stockton Street in 1909. The first addition built in 1913 consisted of two identical wings on the north and south sides of the original building. The second addition made in 1919 was composed of a wing along Stockton Street on the north side of the existing structure. The third addition now known as the Pine Street wing was built in 1929 paralleling Pine Street to the east of the original work. The newest and fourth addition, consisting of a seven story wing along California Street and a two story portion in the central court area, is now under construction.

The new California Street wing is the same size and identical in exterior architecture to the Pine Street wing. It is a steel frame structure with Robertson Decking on all floors except the first which is reinforced concrete. All columns are fireproofed with concrete and all interior beams and girders are fireproofed with vermiculite plaster. Spandral beams are poured in the concrete walls.

The two story portion in the court area is of flat slab construction with bays twenty-eight feet three inches by twenty-nine feet six inches. The bottom story or basement is to be used as a garage. The second story is to be used as a storeroom for old records and was designed for two hundred-fifty pound per square foot live load. The roof of the

court area was designed for a garden floor. A garden similar to that which existed before construction was started is to be replaced on top of the court building. Three and a half feet of earth is to be placed on the roof for the planting. At the east end of the court seven feet of earth will be placed so that trees can be planted.

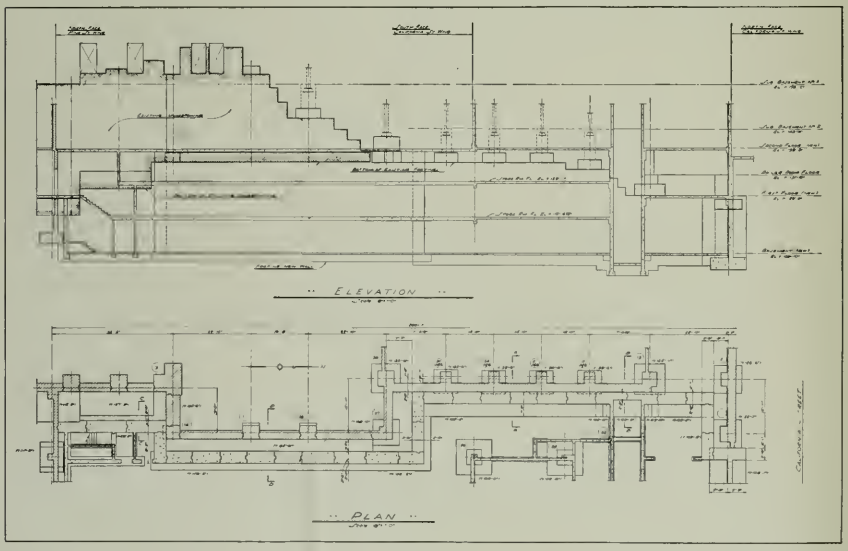
There were no particularly unusual or difficult problems connected with the superstructure of the court area or of the steel portion of the building other than those caused by the heavy loads due to the earth fill and the heavy moment connections required in the steel frame to satisfy the requirements of the present San Francisco Building Code insofar as the lateral loads are concerned. The difficulty encountered in the moment connections was caused not so much by their size as by the fact that the architecture had to match the existing. The existing portions of the building were designed with very little provision for lateral loads and had only nominal moment connections. Since the architecture had to be the same and the terra cotta backing was mostly brick on the early work there was very little clearance between the steel frame and the exterior surface of windows, etc. It was necessary to maintain these same clearances and still devise connections adequate to take the stresses stipulated by the code. There was no possibility of any wing plates or knee braces so it was necessary to use split WF sections. Although it was necessary to use rather large tees there was no trouble except at the fifth floor where the columns were set in. Here a complicated connection was used.

FOUNDATION

The main problem encountered in design and construction was that caused by the relative position of the footings of the old and new portions of the building.

The terrain of California Street is rather steep between Stockton Street and Grant Avenue. The fifth floor of the new wing is level with what was called the second floor of the existing building. However, there were two basements and a boiler room below this second floor. The basement floor of the new wing and court was set at elevation one hundred-eight feet ten inches which is approximately at the street level at the east end of the building where the garage entrance is located. The boiler room of the existing building is at elevation one hundred thirty-one feet ten inches or Thirty-three feet higher than the new basement floor. The highest footings under the existing building along the east wall were at elevation of one hundred thirty-five feet six inches. The elevation of the new footing is one hundred-six feet two inches or twenty-nine feet four inches below the existing footings. These footings at elevation one hundred thirty-five feet six inches were under the Stockton Street wing of the building. The footings under the first two portions of the building were even higher but they had already been lowered by underpinning.

When the Pine Street wing was built in 1929 the footings in the existing building adjacent to the new construction were underpinned so that the bottom of the underpinning was stepped progressively from the low point along Pine Street to a



point where the elevation of the existing footings was reached. That is at elevation one hundred thirty-five feet six inches. This underpinning consisted of a massive concrete wall with a minimum thickness of two feet six inches between footings and a section the full size of the footing directly under them. It was designed as an L shaped retaining wall with the two projecting outside the building. The problem faced in the new work was how to hold the existing building in place both during and after construction of the new. The profile of the existing footings showed that considerable pressures would be involved and that some thoughtful work was necessary. We believe mere underpinning would not do the job. The underpinning that was already placed at the south end of the building precluded that possibility.

This underpinning would have to be carried farther down. It was subjected not only to a vertical load but also to a lateral pressure from the earth under the building and the surcharge on this from the interior footings. If underpinning was placed under that already existing it would be necessary to develop some kind of a moment connection between the two to take care of this lateral thrust, a difficult and costly procedure.

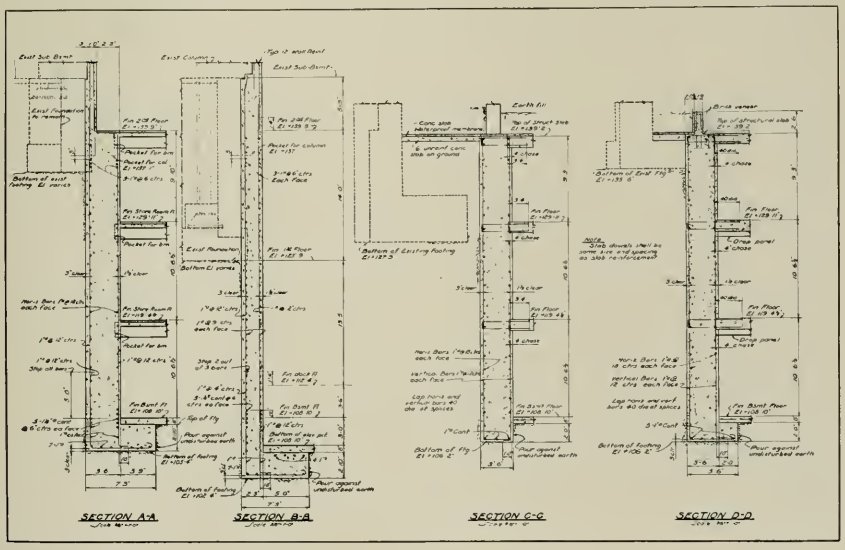
However, if the material under the existing footings could be kept in its undisturbed state and could be supported laterally against sliding into the new excavation the whole problem would be solved. Consequently, it was determined that a retaining wall just outside of the toe of the original underpinning would hold the soil in place and would adequately protect the old structure.

The set-up for such a retaining wall was very good. Along most of the excavated area was a flat slab court construction. In this area the story heights were only ten feet six and one half inches and the clear distance between slabs was only nine feet four and one half inches. These slabs were considered good supports for the wall as they were made fourteen inches thick. They in turn were supported at each edge of the court area on twelve inch walls which ran the full length of the building, at right angles to the proposed wall. This gave a supporting wall approximately one hundred fifty feet long on each edge of the slab. The portion of the wall of the California Street wing was supported by a seventeen and one half inch wall on California Street and two twelve inch walls at the elevator shafts and the joint wall at the court area. The zig zag shape of the wall itself also furnished some support. Thus, there was adequate support for a retaining wall and as the vertical span between slabs was not large the moments induced in the wall were not so large as to prohibit its use.

The term soil as used for the material at the site was used rather loosely as the material under the building was made up of a decomposed serpentine mixed with clay.

In its natural state, while it remained damp, it was quite cohesive and would stand on a vertical face. However, if it was exposed to air and was allowed to dry out it became loose and crumbly. This caused a construction problem of how to make the excavation and pour the wall without leaving

(See Page 24)



NEW BUILDING VIEWED FROM SIXTH AVENUE AND "A" STREET

San Diego Federal Savings AND Loan Association

SAN DIEGO, CALIFORNIA

H. LOUIS BODMER, A.I.A.
Architect

This new ultra modern building, with a frontage of one-hundred fifty feet on Sixth Avenue and one-hundred feet on "A" Street going through to Seventh Street, is of large span concrete construction reinforced with 920,000 lbs. of reinforcing steel and 6,500 cubic yards of concrete.

The total building area is 96,000 square feet, equivalent in space to a 13-story building seventy-five by one-hundred feet, and the unique circular depositors' counter which is the only one of its kind in the nation, is served by eleven tellers.

Two drive-ins permit the public to enter the building on Sixth Avenue with a straight through exit to Seventh Avenue. There is a short term parking area on the first floor and also in a full basement.

Three modern vaults have been installed by the San Diego Federal, one with a safety deposit box section protected by a 30,000 pound circular stainless steel door two feet thick.

There are three elevators from the 120 car basement garage serving the four-story and mezzanine building. The banking room on the first floor has a richly designed terrazzo floor with matched walnut banking counters and wall paneling. A circular stairway and the mezzanine floor have a rose tinted sandblasted plastic railing. The interior approach wall is richly hand painted with three large color murals depicting early California and San Diego history. Warm colors predominate on the banking counters, inlaid terrazzo, green carpets, and rubber floors.

While the basement garage and banking quarters are completely mechanically air-conditioned, the second and third floor office-loft space has been

THE PRESIDENT'S OFFICE

Photos by the Sensor Studios

← **Upper**

Modern vault is seen in center of end-wall in banking quorters, with large murals abave and at each side depicting cammunity history and enterprise.

← **Lower**

Generol view of the spacious banking area as viewed from the Mezzanine floor. Large compass has been inset in circular floor of customer area.

provided with a forced ventilation system. Ceilings and walls are acoustically treated in a harmonious array of colors and indirect lighting. The mezzanine floor, also occupied by San Diego Federal offices, serves the mortgage department with an adjoining richly furnished lounge and rest rooms for employees.

The main entrance to the banking business of the San Diego Federal Savings and Loan Association is located on the Sixth Avenue elevation, while the second and third floor executive and general offices have their separate entrances on "A" Street and Seventh Avenue.

The exterior of the building is a happy culmination of green Verde Antique marble, aluminum windows and fin treatment fitting into the colored mica exterior concrete walls.

Planned, designed and supervised by H. Louis Bodmer, A.I.A. architect of San Diego, the building has the distinction of being the largest and most modern building to be constructed in downtown San Diego during the past twenty-five years.

Below is a view of the Employees' and Guests' lounge room which for general convenience has been located on the Mezzanine floor.

Pushing On With Sydney Town Plan

New South Wales, Australia

By CECIL SLOCOMBE

The Sydney, Australia, $11,200,000 city and suburban improvement plan was adopted by the New South Wales State Parliament last year and is now being put into force with the backing of law behind it.

Forty municipal councils banded together into one authority will carry out the Sydney town planning scheme, which is considered unique because no other similar scheme has yet been implemented where a large number of bodies have set up their own joint authority. Further, in most similar town planning schemes, the controlling body acts in advisory capacity, not as a legal force.

The New South Wales legislation is based on the amended version of Britain's 1932 Town and Country Planning Act. Most of the $11,200,000 cost immediately envisaged will be used in acquiring land to be reserved indefinitely for roads, railways and other uses.

Sydney is Australia's biggest city, main port, international airlines terminal and a great industrial and cultural centre. The population of the Sydney urban area is about 1,750,000, and the population of Cumberland County, the roughly 1,000,000 acres embraced by the plan 1,850,000.

The plan is based on an assumed increase in the overall population of the area to 2,225,000 by the year 1972. On present indications this estimate is

PARK LAND ON HARBOR FORESHORES IS BEING EXTENDED UNDER PLAN

Southern approach to Sydney Harbor Bridge, one of main traffic arteries. Future arterial roads built under the planning scheme will all be "express ways" and protected from intersecting traffic.

conservative, but authorities are trying to encourage decentralisation and hope that population growth will be no greater than about 400,000 in the next 20 years.

Sydney was founded 163 years ago, but no cohesive planning was attempted until 1945, when the State Government passed legislation setting up a town planning framework for Sydney, Newcastle and other cities and towns in New South Wales. The first concrete result from this move was production of a "master plan" covering Sydney and environs. It is this "master plan" which has been approved, with modifications, by New South Wales State Parliament.

The Cumberland County Council, the State's principal planning authority, points out that despite its magnificent setting, general high standards of development and all-round prosperity, the county suffers many defects, the worst being:

Undesirable concentration of employment in the city of Sydney, causing a burden on transport facilities.

Traffic congestion in city and suburbs.

Residential development, lacking amenities and open space, spread out indiscriminately over extensive areas, without proper relation to employment and other factors.

These and other defects will be remedied over the years. One of the more important positive features of the scheme will be the establishment of a green belt around the urban development of the metropolitan area. The green belt will provide a distinct, permanent line between town and country, and retain some portion of the county at a higher

(See Page 38)

Portion of the 1,000,000 acres included in the Planning program as viewed from Bald Hill where Pacific Ocean surf rolls against beach and the cliffs.

Photos Australian News & Information Bureau

DISTINCTIVE APPEARANCE

This home in the Berkeley hills, takes a distinctive appearance if viewed from the down-hill side.

WILLIAM CORLETT

A. I. A.

ARCHITECT

CALIFORNIA HILLSIDE RESIDENCE

BERKELEY,
CALIFORNIA

Photographs by
Rondol Portridge

ABOVE—Porch, overlooking Boy

BELOW—House from street level

HILLSIDE RESIDENCE . . .

Of particular interest, in the wake of headlines reporting houses sliding down hills during the heavier-than-average rainy season in California, is the construction method used by Architect William Corlett in the building of his own hillside residence in Berkeley.

Corlett adapted a long-established engineering principle that has been used successfully in building and bridge construction, but, until recently, has not been utilized for residence construction. The method is known as a "pier-type foundation." Instead of the conventional concrete retaining wall, the house is supported by foot-square piers penetrating through the top soil to firm bearing.

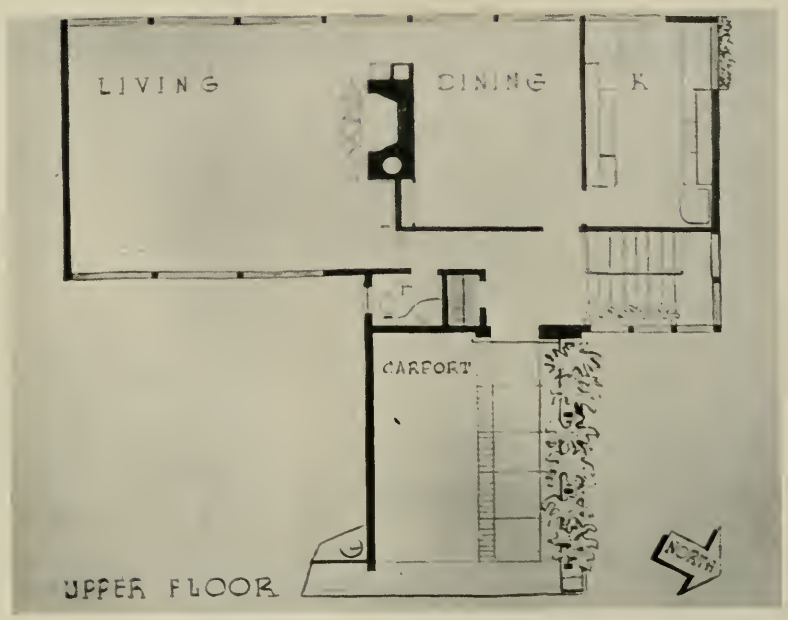
With this type of foundation, water is not restrained but washes through in the spaces between the piers. Thus, there is no backing up of water against retaining walls to cause the entire foundation to slide.

The house actually rests on beams of reinforced concrete 8" wide and 24" high, laid on the ground above the nine piers, which, in this instance, reach down 7' to solid bearing.

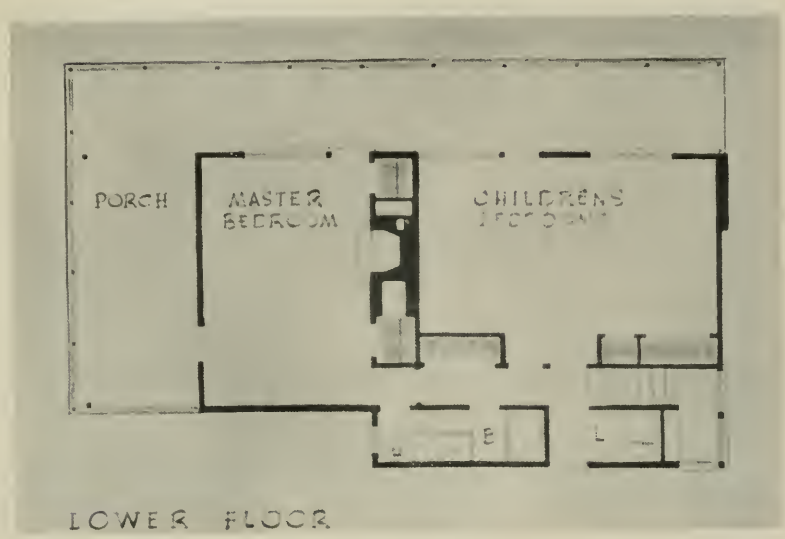
Corlett has solved more than the safety problem with this foundation method. He has also demonstrated that hillside construction need be no more expensive than building a home of equivalent size on flat ground. The use of piers cut concrete use by about 50%. Add this material saving to the savings due to the lower cost of hillside lots considered "unbuildable" and the net cost of the house amounts to no more than the same size house on a level lot. The Corlett residence, an 1800 sq. ft., three-story structure, cost $11 per square foot. For this amount the architect achieved a remarkably big share of living comfort—six rooms with two baths, a 45' sun deck, a sun porch, carport, two fireplaces, redwood plywood interior throughout and a spectacular 17' high all-glass stairwell that is the showpiece of the neighborhood.

There are interesting economies that made possible this tailored-to-order product for a price no greater than "mass-produced" houses of similar size. Instead of the usual 1" x 8" sheathing for floors and outside walls, laid diagonally, Corlett used a ½" plyscored (foundation grade plywood) in 4 x 8 panels, for walls and rough flooring. The

Contrary to usual practice the roof pitches with the slope of hill to cut off sky glare from the living space view areas. The kitchen is located in far corner with a large view window.



Floor Plans emphasize livability and space utility



result is a structurally stronger frame and a 20% cut in material and labor costs.

Instead of finishing the ceiling on the upper floor, Corlett cut costs and actually increased the attractiveness of the interior by using 2" x 8" tongue and grove white fir beams and leaving them exposed.

To bridge the steep slope from street level to house, Corlett constructed a carport which doubles as garage and entry-way.

Contrary to the contemporary practice of sloping the roof skyward on the view side, Corlett has his roof parallel the slope of the hillside with a 5' overhang on the western view side to cut out sky glare and frame the view to greatest effectiveness. And he has brought the overhang **into** the house to strengthen the relationship between interior and exterior and achieve a pleasant effect of balance as well as an attractive break in the interior ceiling line.

This interior overhang is utilized to accommodate the metal ducts of the "air wall" warm air heating system, hiding them from view and at the same time achieving the most effective distribution for the system. The grilles set in the overhang blow warm air along the surface toward the windows, thus heating up cold air right at the source of the greatest heat loss. (This heating system requires no floor space for fixtures. Additional registers are set in the opposite wall at floor level and furniture can be placed in front of them.

The overhang also serves to house indirect lighting tubes and a decorative display of philodendron plants.

Connecting the street-level living room, dining room and kitchen with the downstairs bedrooms, sun deck and porch, is the stairwell, which is an outstanding example of what can be done to make a utilitarian space decorative. The 17' high area is glass enclosed from floor to ceiling on north and east sides to take full advantage of the view of San Francisco Bay. Planting boxes line the stairs on the glass-wall side. The stair railing on the other side is formed of a 1½" steel pipe, enamelled watermelon red, and connected with the floor by a lacing of woven copper cable. A custom-designed lighting fixture is suspended from the ceiling. The

Stairwell corner is enclosed in glass and affords breathtaking view of Bay . . a noteworthy example of how to give decorotive interest to space performing a utilitarian function.

copper shade is pierced with ⅛" round holes to give soft, diffused light over the entire area, and the globe throws direct light on the steps and landing. Three small bulbs at the top of the fixture light the ceiling without casting a shadow of the shaft. The stairwell is carpeted in chocolate brown and the one non-glass wall is painted a deep forest green.

Room Dimensions and Decorations

Living room—18' x 24'. West wall, glass; east wall, redwood plywood. (A radio cabinet with bleached oak frame and walnut stained doors, stands against this wall.) North wall, Sonoma fieldstone fireplace and bookcase backed with sheet rock painted dark green. The entrance to the dining room is at the left of the fireplace wall and the corridor leading to the front door and stairwell is at the right. (A slab of Travetite—marble chips and black concrete cast and polished—juts out from the fireplace floor. This material is identical to marble in appearance, but heat resistant, and adds richness in combination with the fieldstone.) Flooring is oak.

RIGHT: Copper light fixture, perforated for light diffusion, is feature of stairwell.

BELOW: Sun porch protected by chain link fencing provides children's play area.

Dining room—12' x 15'. West wall glass; other walls redwood plywood. Old fashioned marble topped sideboard with gray finish; old-fashioned driftwood gray dining room table and chairs.

Kitchen—9' x 15'. All cabinet work, mahogany. There are two ovens, one on top of the other—the second a convenience for keeping food hot—and drawers under the stove for pots and pans. The marble-topped table and old-fashioned drug store type wire chairs which have been copper plated and fitted with walnut plywood seats, form a breakfast nook arrangement in front of the picture window on the west wall. Walls to the north and west are painted yellow and the refrigerator is painted black.

Upstairs bath—Two walls red; two walls and ceiling gray; red rubber tile floor. (Note: Flush valve type toilets are used in both bathrooms, wall hung to save space and eliminate cleaning problems.)

Master bedroom—12' x 18'. West wall, picture window and entrance leading to sun deck. North wall, Italian white marble fireplace; remaining wall painted firehouse red. Each wall and ceiling, gray. South wall, with entrance to sun porch, metallic gold. Floor, black and red marbelized tile.

Children's bedroom—13' x 21' (can be divided into two rooms when young daughters are older). West wall, picture windows and entrance to sun deck. Other walls, redwood plywood. Ceiling, sky blue; floor, torquoise blue asphalt tile.

Bath—Two walls, chocolate brown; two walls and ceiling, cadmium yellow; green rubber tile floor; light green fixtures.

Laundry—Located under stairwell on bedroom floor.

Sun Porch—9' x 18' off south end of master bedroom. Sun deck—6' x 45'—full length of house on west, protected by 3' high chain link fencing.

Decorative center of interest of view-window bedroom is the marble face of the fireplace, a relic token from the old family homestead.

RIGHT: Roof overhang cantinues into living room to emphasize oudoor - indoar relationship and affard interesting break in the ceiling line, also accommadates ducts of air-wall heating system.

ABOVE: Slab of stone forms flaor af fieldstane fire place in living room with large glass windows affording unobstructed view af city and Bay . . . laoking towards the West.

RIGHT: Mahogany cabinet work lines wall of kitchen . . . the breakfast space is by the view window.

(From Page 9)

the face of the bank exposed too long. Shoring and bracing of the wall until the slabs were poured was, of course, a problem no matter how the wall was built.

At first it was thought that it would be possible to excavate a good deal of the material on the east side of the site working toward the existing building. Of course, a beam sufficiently wide to support the existing building would be left so that there would be no tendency whatever for the material under the building to slide or be dislodged. After this beam had been cut down to its minimum width the procedure was to be altered to this event:

A narrow trench of ten or twelve foot width or possibly as many as three of them would be dug simultaneously, normal to the face of the evisting building and to the full depth of the new footings. This trench was to be carried-up to the face of the new wall. As soon as the material was exposed and the cut was trimmed it was to have been given a coat of gunite two inches thick to seal it from the air and consequent slacking. Then a section of the wall was to be formed and poured in each of these trenches. Before the next trenches were dug the wall sections already poured would be shored-up so that they would stand until the slabs were in place.

The retaining wall was designed with this method of construction in mind. Horizontal bars were kept to a minimum so as to facilitate the connections between the different sections of the wall. Of course, a minimum of steel still meant plenty of bars for a wall of this size. The wall as originally designed was two feet thick with an L shaped footing six feet wide.

When the contractor was chosen and work was to be started the contractor thought that the method of construction was too risky and unorthodox for them. It is not often you find a contractor more conservative than engineers but such was the case here.

The construction procedure outlined was too risky as they saw it to cover the existing building against damage during the construction. So a more conservative and more expensive method had to be used. At first they were holding out for underpinning all of the footings adjacent to the new construction but were finally convinced that all of the lateral pressure, of which there was plenty, would have to be taken by the wall anyhow and that it was a simple enough matter to make the wall strong enough to take the surcharge as well. So it was decided that the wall would be built as originally designed. That is just outside of the toe of the existing underpinning. Instead of excavating by trenches as described, the work was to be done by sinking shafts down to the footing elevation. This was all hand work and although it was less hazardous than the other method it certainly was more costly. Under this new scheme a two foot thick wall didn't make much sense. There certainly was no sense in digging a shaft only two feet wide and some thirty-five feet deep. It also didn't make much sense to dig a wider hole and then have to form around the cribbing to pour a two foot thick wall. Considering the construction procedure involved, three feet six inches was determined to be about the right width for the wall; the hole being a little wider because of cribbing, etc. Since it was easier to pour the hole the full width and much easier to place the steel and work in the shaft, the wall was redesigned to take advantage of the three foot six inch width. This, of course, cut down considerably the amount of steel required. It also erased the possible skepticism in some minds that two foot wall was adequate although it was so proven by calculations using any recognized method of figuring soil pressure and surcharge.

The wall was laid out in a series of blocks eight feet long. The steel was detailed for each block and the horizontal bars were projected from the block so that the bars in the next block could be welded to them. When the closing blocks were poured the steel was cut to exact length and welded on each end. Here again in this wall the horizontal steel was kept to a minimum so that there would be as little welding as possible. The horizontal bars were one inch square and were placed at eighteen inch centers in each face of the wall. This is just a little better than twenty-five one hundredths of one per cent.

The shafts were dug three at a time and there were three blocks left between each shaft so that every fourth block was a closing block. As soon as a shaft was dug the side next to the building was gunited to protect the exposed material from the air. Each block was poured continuously from bottom to top. Each block had a vertical shear key the full height. Where the slabs framed into the wall a chase was left and dowels were placed in the wall so that they could be bent out into the slab.

While the blocks were being poured, excavation of the rest of the site had been completed, except for a portion next to the building that was used to support the wall while it was being poured. As soon as the wall was completed this last portion was removed in sections. As each section of earth was removed the exposed wall was supported by steel shores. The shoring was placed on approximately 12 foot centers. It consisted of two steel struts from the wall to a concrete pad poured in such a way that the pads were clear of the build-

ing column footings. The struts supported the wall at two different elevations. The low one was placed so that it hit the wall just above the first floor. The high one was placed two feet six inches above the garden floor. These struts ran right through the flat slabs but no pockets were left for their removal. Wherever the slab steel hit the struts it was cut-off and welded to the strut on both sides. The slab was poured solid around the strut. The struts will be cut-off about three fourths of an inch inside the surface of the slabs and then the slab will be patched at these points.

Harry A. Thomsen and Aleck L. Wilson are the architects for the building. H. J. Brunnier is structural engineer. Cahill Brothers are the general contractors and Ben C. Gerwick Inc. did the underground work and excavation for the wall.

CONSTRUCTION COMPANY EXPANDS IN ORGANIZATION AND QUARTERS

Expansion of the well known Haas Construction Company into the new firm of Haas & Haynie has been recently announced by Edward T. Haas, head of the new organization, with opening of offices at 275 Pine Street, San Francisco.

EDWARD T. HAAS
General Contractor

Robert M. Haynie, well known in the construction industry throughout the West and for the past four years assistant to Richard Walberg of the firm of Swinerton & Walberg Company, becomes a general partner, and Leo S. Gosliner, an engineering graduate of the University of California and well known in the construction estimating field for the past twenty-five years, becomes chief estimator of the new organization.

ROBERT M. HAYNIE
General Partner

The new offices of the company occupy the entire second floor of the two story building opposite from the San Francisco Stock Exchange, Sansome and Pine, and comprise approximately 3000 sq. ft. of floor space.

The entire floor has been remodeled to meet the general needs of the construction firm and to offer a convenience to customers. Provision has been made for separating the division of engineering, estimating division, accounting department, and executive offices into individual operations. A portion of the lobby has been set aside for the use of sub-contractors with special provision for display and filing of plans and specifications. Telephone outlets are also available, with connections to any division of the firms, enabling users of the sub-contractors room to confer with engineering, estimating, accounting, and executive personnel with a maximum of efficiency.

LEO S. GOSLINER
Chief Estimator

An attractive street entrance and stairway serves as an introduction to the second floor lobby where mahogany plywood partitions and obscure glass in functional design serves to individualize each department, yet assures compact unity in general operations.

The company is one of the older construction firms on the Pacific Coast and traces its beginning back to 1898 when Edward Haas, father of the present company head, formed his first construction organization for dredging and heavy construction work in California and the West.

Recently the firm operated under a partnership of Haas & Rothschild, an activity now in the process of dissolution.

Edward T. Haas, also a civil engineering graduate of the University of California, is head of the firm which has participated in construction contracts amounting to more than $100-million dollars.

Some of the present projects under construction by the firm include work for the Pacific Telephone & Telegraph Company, International Paint Company, American Airlines, White Motor Company, U. S. Navy, City of Pacific Grove, and the Archdiocese of San Francisco.

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EDWARD C. KEMPER ARCHITECTURAL AWARD GOES TO BOSTON ARCHITECT

William S. Parker, F.A.I.A., Boston architect, planner and consultant on contract procedure, was given the Edward C. Kemper Award from The American Institute of Architects at the annual AIA convention in New York.

The award is given annually for outstanding contributions to the architectural profession and was established in 1950 in honor of Edward C. Kemper, executive director of the A.I.A. from 1914 to 1948.

Parker was born in Boston in 1877, became a member of the A.I.A. in 1908, a Fellow in 1916, and was its secretary from 1916 to 1923, and vice president in 1923-24. From 1930 to 1932 he was president of the Boston Society of Architects.

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SAN DIEGO CHAPTER

The regular May meeting was devoted to a consideration of "Interior Decorating" with Mrs. Virginia Stewart McLellan, president of the Southern California Chapter of the American Institute of Decorators, the principal speaker.

Among guests attending the meeting were California State Senator Fred H. Kraft, and California State Assemblymen Frank Luckel and Ralph R. Cloyed.

A number of committee appointments were announced by President Louis A. Dean.

NORTHERN CALIFORNIA CHAPTER

President F. Joseph McCarthy has called members' attention to the annual Marin Art and Garden Fair scheduled for opening on July 4th in Ross, during which an opportunity is given for architectural exhibits. The event is one of the outstanding held in the Bay Area each year and is attended by persons from all parts of the nation.

Chapter members have been asked to exhibit in the Associated Home Builders of San Francisco, the Northern California Electrical Bureau and the Gas Appliance Society of California Annual Exhibit schedule to open in the San Francisco Civic Auditorium from September 27 to October 5.

Bourn Hayne, chairman of the Publicity Com-

Oregon Chapter:
Clarence H. Wick, President, 90 Spaulding Bldg., Portland; Lowell F. Anderson, Secretary, 11541 S. W. Military Rd., Portland.

Pasadena Chapter:
Scott Quintin, President; Robert E. Langdon, Jr., Vice-President; Robert L. Deines, Sec.; Lee B. Kline, Treas. Directors: Wallace C. Bonsall, John N. Douglas, Boyd E. George, and Culver Heaton. Offices: 259 S. Los Robles Ave., Pasadena.

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Producers' Council—Northern California Chapter (See Special Page)

mittee represented the architectural profession at a conference of newspaper editors at Stanford University on June 20th.

SOUTHERN CALIFORNIA CHAPTER

Ernest R. Geddes, Assemblyman of the 49th California District, spoke at the June meeting on the subject "Our Expanding Community" and pointed to a number of important state-wide developments learned through his being a member of the California Legislative Interim Committee on Highways, Streets and Bridges, Public School and Legislative Process, and State and Local Taxation.

Appearing on the same program was Roger W. Jessup, Supervisor of the Fifth Supervisorial District, and Chairman of the Board of Supervisors, Los Angeles City and County, whose subject was "County Government."

OREGON ARCHITECT AWARDED LEWIS TRAVELING FELLOWSHIP

Marvin Witt of Portland, Oregon, graduate of the University of Oregon school of architecture and allied arts in June 1951, has been awarded the Ion Lewis Traveling Fellowship for 1952, according to dean Sidney W. Little of the art school.

Witt will leave for Europe this fall for a year's study of methods used in designing structures for the housing of juvenile delinquents.

Since graduation Witt has been affiliated with the architectural firm of Lawrence, Tucker and Wallman of Portland.

AIA FELLOWSHIPS GRANTED TO CLARK AND JACOBBERGER

Birge Malcolm Clark, Palo Alto and member of the Northern California Chapter of the AIA, and Francis B. Jacobberger of Portland, Oregon, and member of the Oregon Chapter, AIA, have been advanced to fellowship in The American Institute of Architects at the New York convention.

The fellowship's were among some thirty-nine granted architects throughout the nation, and represents the highest membership granted by the In-

(See Page 31)

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WITH THE ENGINEERS

Structural Engineers Association of California
Donald F. Shugart, President; Walter A. Buehler, Vice-President; Lewis K. Osborn, Sec.-Treas.; Office c/o Kistner, Curtis & Wright, Room 203 Architects Bldg., Los Angeles. Directors Arthur W. Anderson, John E. Rinne, Henry J. Degenkolb, Lewis K. Osborn, Ernest C. Hillman, Jr., R. W. Binder, Donald F. Shugart, Walter A. Buehler, and G. E. Goodall.

Structural Engineers Association of Northern California
John J. Gould, President; G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Ass't. Sec.; Wm. K. Cloud, Ass't. Treas.; Directors Robert P. Dalton, John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick. Sec. Office, 417 Market St., San Francisco.

Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

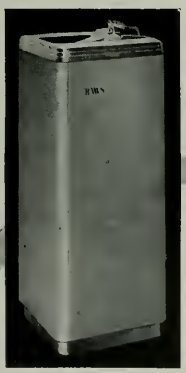
American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION SOUTHERN CALIFORNIA

A most interesting program was arranged by officials of the U. S. Naval Civil Engineering, Research and Evaluation Laboratory at Port Hueneme for the meeting on June 4th.

Demonstrations were conducted on a number of projects with executives in charge giving descriptions of the work being undertaken.

Following the afternoon field demonstration, dinner was served in the Officers Club with Dr. F. E. Lowance, Technical Director of NAVCERELAB, speaking on the subject "Problems Concerned with Directing Research and Development Programs."



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New Members recently announced include: Jack M. Fratt, Member; Henry L. Ebright, Affiliate; Vincent R. Bush and Walter Bedke, Associate's.

There will be no regular meeting in July or Aug., however, the annual Field Day will be observed Aug. 8, at the Oakmont Country Club.

THE FEMINEERS

The Femineers, wives of members of the American Society of Civil Engineers, and Structural Engineers Association of Northern California, celebrated their Second Anniversary Party with a Smorgasbord Luncheon at the El Nido Rancho in Lafayette on May 21st.

Mrs. Eric Moorehead served as Program Chairman, with arrangements for the luncheon in charge of Mrs. August Waegemann.

WASHINGTON SOCIETY PROFESSIONAL ENGINEERS—SEATTLE CHAPTER

The Seattle Chapter of the Washington Society of Professional Engineers held their regular monthly meeting in the Engineers Club, Arctic Building, Seattle, on May 22.

Principal speaker was Dr. M. Shelby Jared, medical director of the King County Service Corporation. His subject was "The Professional Side of Medicine."

AMERICAN SOCIETY OF MILITARY ENGINEERS—SAN FRANCISCO POST

"New Occasions Teach New Duties—The Role of the Engineer in a Dynamic World", was the subject of a talk by Dean Morrough P. O'Brien, College of Engineering, University of California, Berkeley, at the Presidio Officers Club in San Francisco on June 12th.

Starting as a Civil Engineer in 1925, Dean O'Brien, College of Engineeriing, University of California, Berkeley, at the Presidio Officers Club in San Francissco on June 12th.

Starting as a Civil Engineer in 1925, Dean O'Brien began his teaching career at Perdue Uni-

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Structral Engineers Association of Oregon
R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)
R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices. L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District
L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post
Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

versity and joined the staff at the University of California in 1928 as assistant professor of Mechanical Engineering. He became Dean of the College of Engineering in 1943.

During World War II, as executive engineer of the U. C. Radiation Laboratory, he was responsible under Dr. Lawrence for co-ordinating the design of the Electromagnetic plant at Oak Ridge. He also served during the War as consultant to the Bureau of Ships on problems of under-water sound, landing craft design, and surf conditions affecting amphibious landings.

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

Ralph F. Huntsberger, of the Head-Ames Unity Plan Group, Ames Aeronautical Laboratory, Moffett Field, spoke before the May meeting at the Engineer's Club on the subject "Wind Tunnels and Some Problems of Their Structure," which involved heavy pressures, the use of steel plates up to $2\frac{3}{16}$" thick and the solution of many problems such as welded connections.

Included in the program were movies and slides illustrative of the work of the National Advisory Committee on Aeronautics in connection with wind tunnels.

The July meeting is to be the Annual Stag Picnic and will be held at the Old Hearst Ranch on July 12th. Members and guests will participate in golf-softball, tennis, swimming, and horse shoes with a barbecue steak dinner in the late afternoon.

EARTHQUAKE CONFERENCE AT UNIVERSITY OF CALIFORNIA

"Earthquake and Blast Effects on Structures" was the title of a conference at the University of California at Los Angeles on June 26-27-28, sponsored by the Earthquake Engineering Research Institute, and the University of California.

Among those appearing on the program were John Rinne, H. M. Engle, Henry J. Degenkolb, John A. Blume, A. V. Saph, Jr., and Henry C. Powers, all of San Francisco.

OPENS NEWS ENGINEERING OFFICES IN SAN FRANCISCO

James L. Stratta and Albert T. Sampson, structural engineers, have opened offices at 406 Sutter Street, San Francisco.

Both engineers were formerly with the firm of Hall and Pregnoff.

ALASKA BIDS UNDER ESTIMATE

Of eighteen bids offered for construction of four 75-man barracks at the Eielson Air Force Base in Alaska, fourteen were under the government's fair cost estimate of $292,763, according to the Alaska District of the Corps of Engineers.

Kuney Johnson of Seattle, was the low bidder at $215,000.

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PRODUCER'S COUNCIL PAGE

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TABLE TOP MEETING

The Annual Table Top display was held on Wednesday, May 22, in the Terrace Room of the Fairmont Hotel, San Francisco. About fifty-five member companies sponsored displays that were reviewed by about five hundred invited guests.

The exhibit opened at 3:30 and cocktails were served from 5:00 until 7:00 P. M.

This was a most successful affair and was the result of not only a hard working committee headed by Mr. John O'Connor, H. H. Robertson Company and a hard working Fairmont Hotel staff, but an earnest effort on the part of each of the exhibitors.

We can think of no other function of the Producers' Council where we can display our products to such a large group of architects and engineers and at the same time enjoy the good fellowship of the Producer members while entertaining our friends in the profession. This is a privilege and a pleasure enjoyed by members of the Producers' Council that cannot be found in any other organization.

GOLF TOURNAMENT

Hook and slice against a background of moans and groans will be the order of the day on Friday, June 20, when the Producers' Council Annual Golf Tournament gets under way at the Presidio Club in San Francisco.

All golf playing producers as well as the "dubs" are urged to participate in this affair.

Tentative plans include invitations to all golf playing architects and each Producer member will be asked to sponsor at least one guest. Matches will be arranged to suit the players convenience and at the close of the day the coveted awards will be presented at the Annual Sports Dinner commencing at 7:00 P. M. at the Presidio Club.

ELECTED OFFICERS

At the last regular business meeting on May 5 at the Palace Hotel in San Francisco, the nominating committee presented their nominations for the gentlemen best suited to succeed the present officers that have served the San Francisco Chapter from January, 1951 to July 1952.

Installation of newly elected officers serving from July, 1952 to July, 1953 will take place at the Annual Sports Dinner on Friday, December 20, 1952.

The newly elected officers are: President, Al West, Aluminum Company of America; Vice President, Howard Noleen, The E. F. Hauserman Company; Secretary, Hillman Hudson, Vermont Marble Company; Treasurer, Tait Smith, Ceco Steel Products Corporation.

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A. I. A. ACTIVITIES

(From Page 27)

stitute.

Clark's recognition was for outstanding work in the field of Public Service and Service to the Institute, while the recognition of Jacobberger's effort was in the field of Public Service.

INSTITUTE RECOGNIZES NEW YORK COORDINATOR OF CONSTRUCTION

Robert Moses, New York City co-ordinator of construction, has been elected to Honorary Membership in the American Institute of Architects, at the Institute's annual convention in New York.

Moses is internationally known for his distinguished public service and is recognized as a leading authority in the many fields related to the planning and execution of public works and development.

TWO CALIFORNIA ARCHITECTS NAMED TO AIA FELLOWSHIPS

Welton Becket and Maynard Lyndon, A.I.A. architects of Los Angeles, have been raised to fellowship in The American Institute of Architects. The announcement was made by Charles O. Matcham, AIA regional director of the Sierra-Nevada district, who said the awards were among thirty-nine to be made nationally at the annual convention in New York City on June 25th.

Fellowship in the Institute is the highest class of membership and is conferred in recognition of distinction in design, service to thhe public, profession of the Institute.

Becket has been practicing architecture in Los Angeles for twenty years, while Lyndon has been practicing in this country for twelve years and is the winner of numerous AIA Honor Award competitions.

NEWS AND COMMENT ON ART

(From Page 5)

day Lectures at 3 p.m.; Wednesday Evening Lectures at 8 o'clock; Film Showings Saturday and Sunday 2:00 and 4:00 p.m.; Docent Gallery Tours, daily at 3 p.m., and Gallery Tours by Staff Members on Monday and Thursday evenings at 8 p.m. The Art for the Layman, Adventures in Drawing and Painting, and the Children's Saturday Morning Art Classes will not be held during the summer.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, presents an exhibition of the Guild

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of Book Workers of the American Institute of Graphic Arts during June.

The show contains forty-seven volumes, hand bound in precious leather, decorated with gold and in many cases inlaid with various types and colors of leather.

A collection of hand decorated paste papers and hand made marble papers is added. Also hand illustrated pages reminiscent of the technique of the medieval era.

This is the first exhibition of contemporary book binders in San Francisco since 1939.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, will feature an Exhibition of Paintings by Gladys Lloyd Robinson, Si Hassan El Glaoui and a group of Watercolors by Gisela Aronstein during June.

Recent paintings by Jean De Botton will be the June feature of the Pictures of the Month display.

ORIGINATORS OF RANCH HOUSE ARCHITECTURE ARE HONORED

Henry M. Greene, 82, and Charles S. Greene, 80, two California architects considered the originators of the informal, rambling, bungalow-style ranch house which has spread to all parts of the country, were honored by The American Institute of Architects with special citations at the opening of an exhibition of their work in the Pasadena Art Institute early in June.

The citations were made by Charles O. Matcham, A.I.A. regional director, and Los Angeles architect.

ENGINEERING FIRM WINS NATIONAL RECOGNITION

The consulting engineering firm of Delius and Thomas, San Francisco, has been awarded a $100 Gold Seal award in the annual Gold Seal Award Competition sponsored by the Fourth International Lighting Exposition of the National Electrical Manufacturers' Association.

The award was made in recognition of the design and installation of the lighting in the Oakland Bank of America, Oakland, California.

More than 480 entries were submitted in the competition from all parts of the nation.

MORE STUDENT ENGINEERS NEEDED

A critical shortage in the United States for engineering manpower for industry and the defense effort has prompted the Advertising Council to accept an advertising campaign urging qualified high school students to consider engineering as a career, at the recommendation of the Engineering Manpower Commission of the Engineers Joint Council.

The present shortage of engineers numbers 60,-

000. Industry alone needs a minimum of 30,000 new engineers a year for normal replacement and growth, and against these requirements, engineering graduates are expected to total approximately 28,000 in 1952, 19,000 in 1953, and 12,000 to 17,000 in 1954.

The campaign will point out to high school students and their parents the opportunities that exist in engineering today and in the years to come, and the average of engineering training in qualifying young men for positions of leadership in many fields. The Advertising Council is a private, non-profit, non partisan organization supported and operated by advertisers, advertising agencies and the advertising media, for the purpose of utilizing advertising in the solution of national problems.

LOS ANGELES BUILDING WINS NATIONAL RECOGNITION

The Van de Kamp's Coffee Shop on Wilshire Boulevard in Los Angeles, recently received the top award of the food-distributing industry at the National Restaurant Convention in Chicago, for "the highest sanitation standards and superlative achievement in storing, handling, preparing and serving food."

The building was designed by architect Welton Becket & Associates in the contemporary California style and was designed to serve as many as 13,000 individuals a day. The coffee shop includes a main dining area and a 85-seat counter, a "sidewalk cafe", a complete bakery department, and a take-out food bar.

ARCHITECT IN NEW OFFICES

Architectural offices of Charles O. Matcham, A.I.A., and Sierra-Nevada District Director of The American Institute of Architects, have been moved to 621 South Hope Street, Los Angeles.

The Sierra-Nevada A.I.A. District includes California, Nevada and Hawaii.

KRAFTILE EMPLOYEES VIEW PRODUCT INSTALLATIONS

Twenty-three members of the Kraftile organization, under the leadership of C. W. Kraft, president, toured Kraftile installations at the Naval Air Station at Moffett Field and the Peninsula Creamery Company at Palo Alto recently.

Highlight of the trip was an opportunity to view 20 years of Kraftile installations at Moffett Field where the first job was done in the galley and mess hall of Barracks No. 19 in 1932. Most recent installation was in 1951 when Kraftile Glazed Wall Units were used in the shower and toilet rooms of the addition to Barracks No. 19 and throughout in the Vehicle Power Repair Building.

At Palo Alto where the Peninsula Creamery

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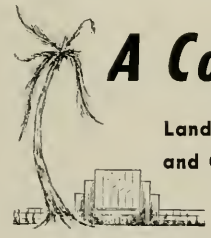

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Company plant featured Glazed Wall Units in the production room and cooler with Kraftile Acid Brick on the floors, the tour was conducted by John M. Santana, creamery company president.

Following the inspections the group enjoyed lunch together at nearby "Rickey's."

PRODUCERS' COUNCIL SOUTHERN CALIFORNIA CHAPTER

The annual meeting of the Southern California Chapters of The American Institute of Architects and The Producers' Council with the Student Chapter of the AIA at the University of Southern California was held on the campus recently with Floyd Rible program chairman for the AIA, Max Burgman program chairman for the Producers, and Charles Fry, president Southern California Chapte AIA and Bert Taylor, vice president Producers Council serving jointly as chairmen of the day.

Speakers at the conference included N. Bradford Trenham, general manager California Taxpayers' Association speaking on "What's Ahead for Taxpayers", and Dr. C. C. Carpenter, assistant superintendent Los Angeles City Schools, whose subject was "The School Administrator and the Architect".

In the Annual Student Design Competition, first award was made to John Carter; 2nd award to Charles McReynolds; 3rd award to Robert Tyler, and certificates of commendation for exceptional merit shown were awarded Thornton Ladd and John D. Hartfelder. Members of the Selection Committee for the AIA included Paul Hunter, John Landon and Charles Fry.

Arrangements for the program were made thru Dean Arthur Gallion, School of Architecture, University of Southern California.

DISTRICT SUPERVISOR CONTRACTORS LICENSE BOARD IS APPOINTED

Albert H. Atwood has been appointed to the position of District Supervisor for the Contractors' State License Board in the Sacramento District which embraces thirty counties. He succeeds J. Ira Courtney who has been appointed Registrar for the Structural Pest Control Board.

Atwood has been connected with the San Francisco district office as an investigator.

SMALL FIRMS RECEIVE THREE FOURTHS CONTRACTS

More than three-fourths of all procurement contracts awarded by the Army Corps of Engineers in the first six months of fiscal year 1952 went to small business firms, the Department of the Army has announced.

Between July 1 and December 31, 1951, the Corps of Engineers placed 42,515 contracts with small business firms in the amount of $308,582,600.

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This sum was more the 50 per cent of the total procurement exp nditure r that period. In addition, parts of many r contracts are subcontracted to small busines by large firms.

Lieutenant General Lewis Bick, Army Chief of Engineers, has commended the small business specialists attached to each of the five Engineer procurement offices for their efforts in assisting small businesses in obtaining Army Engineer contracts. A small business is defined by law as one having no more than 500 employees.

Industrial exhibits of products procured by the Corps of Engineers are on display in 18 field offices throughout the United tSates. The displays afford small business firms an opportunity to examine at first hand items of Engineer equipment and their component parts. Specifications and plans for these items can be seen at Engineer field offices.

ARCHITECTURAL FIRM MOVES OFFICES

The architectural firm of Hervey Parke Clark and John F. Beuttler, A.I.A. architects, recently moved into new quarters at 552 Mission Street, San Francisco.

The firm engages in the general practice of architecture.

ATOMIC BOMB AND EARTHQUAKE CONFERENCE IS SCHEDULED

The effects of atomic bombs and earthquakes on structures will be discussed at a conference to be held at the University of California, Los Angeles, on June 26-28.

The conference is designed to bring the most recent research results and professional developments in the field to architects, builders, building officials, city planners, plant managers, practicing engineers and public works officials.

Among the subjects to be considered are "Motion of Earthquakes," "Forces on Structures Due to Blast," "Analysis of Response of Structures to Dynamic Loading," "Failure Observations," "Building Code Provisions for Aseismic Design," "Aseismic Structural Design," and "Design for Blast Loading."

CALFORNIA CONTRACTORS' LICENSE BOARD MEMBERS

H. Earl Parker, general engineering contractor, was recently appointed a member of the Contractors' State License Board, replacing J. Philip Murphy, whose term expired, and S. Glen Hickman, southern California plumbing contractor, has been named to succeed the late William Nies on the Board.

Jess B. Worthington and H. Cedric Roberts have been reappointed to the Board with terms expiring in January 1956.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

BUILDING TRADES BLUEPRINT READING AND SKETCHING—Basic Course. By Connecticut State Education Department and Delmar Publishers. Delmar Publishers, Inc., Orange St. and Bdy., Albany 7, N. Y. Price $4.25.

A 190 page book divided into Three Parts, plus Appendix; has folded-in drawings, is well illustrated and indexed.

Basic fundamentals of interpreting blueprint instructions and making trade sketches are described from "front line" building experiences. It was prepared by a committee of craftsmen and instructors to meet specific teaching requirements and represents a real need for architects, engineers, contractors, builders, and educators.

LOUIS SULLIVAN, Prophet of Modern Architecture. By Hugh Morrison. Peter Smith, Publisher, 321 5th Ave., New York. Price $6.00.

First published in 1935, the book has been reprinted by permission of the author, Hugh Morrison, Prof., Department of Art and Archaeology at Dartmouth College, and covers the life and work of Louis Sullivan.

The author has this to say of Sullivan: "In the field of architecture it remained for Louis Sullivan to integrate romanticism and realism, to achieve a synthesis both in theory and in practice completely expressive of modern life, and to make possible the renewal of architecture as a creative art based on those fundamentals that have always existed in the great architecture of the past. In this sense he was the first modern architect."

The book is well illustrated.

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Desirable objectives and a suggested regulatory manual of subdivision standards and methods of procedure for local use are presented. The assistance which certain Federal agencies can give is described and a bibliography of applicable literature is given in the appendix.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

379. WINDOWS FOR MENTAL HOSPITALS. Windows for institutions designed for the safety of the patient are shown in this new catalog printed by the Willima Bayley Company. Complete installation details are shown with descriptions to show the function of each design for hospital construction needs. A.I.A. 16-E, ten pages, illus., 11/51.

380. PRECAST PRESTRESSED CONCRETE SLABS. A new 1952 catalog on Flexicore prestressed concrete floor and roof slabs is released by the Flexicore Co., Inc. Special features include—diagrams showing how Flexicore slabs are used with all types of construction. A simplified load chart. An explanation of how prestressing Flexicore slabs permits heavier loads on longer clear spans. New ways to install heating systems, including hot water radiant and a warm air split system that combines circulating air with a radiant floor. A.I.A. 4-K, eight pages illus., 4/52.

381. RECOMMENDED STANDARD DETAILS FOR ARCHITECTURAL PORCELAIN ENAMEL. A Bulletin covering the recommended and approved standard details for the use of Architectural Porcelain in Service Stations and Similar Buildings is available. The details covered are coping panels, base and display window sections and sections at flush type steel sash or conventional steel sash, sections at overhead doors, recommended details at head of doors, and canopy section, A.I.A. 15-H-2, four pages illus., 11/51.

382. HOW TO BUY FLOOR MATTING. "How To Buy Floor Matting," whether it be rubber, wood, plastic or composition, is the title of an unusual piece of new literature just issued by the American Mat Corporation here. According to D. M. Moor, Jr., president, different types of mats are scientifically engineered to do specific jobs in a wide variety of institutions, industrial and retail establishments. Because of a lack of knowledge of the product, the problem of the buyer in this field has long been that of how to select the mat which will provide the exact answer to his specific need. Since a good mat can last upwards of ten yeras, Moor believes that a buyer's selection should be carefully considered. 8 pages, illus., 3/10/52.

383. ROKADA MAGNESITE FLOORS. This catalog with specifications details released by the LeRoy Olson Co. covers the Rokada Magnesite floor which is most frequently used for areas on which there is heavy pedestrian traffic. Its most common uses are in stores, restaurants, soda fountains, food dispensary, toilets, etc. It is commonly recognized by the U. S. Government, State, County and City Boards of Health regulatotries as an acceptable sanitary floor. Complete details covering all specifications and uses are included. A.I.A. 23-D, thirteen pages, illus., 6/10/51.

384. FINTUBE CONVECTORS. A variety of useful information concerning design, ratings, installation and performance of National Fintube Convectors is presented in a catalog which is now available from The National Radiator Co. According to the new literature, these heat distribution mediums for schools, hospitals, factories, apartments, public buildings or business offices contain heating elements of steel fins on steel pipe. The convectors described in the new catalog can be incorporated into heating systems employing hot water or steam at low or high pressure. Their lightness in weight is said to be advantageous since only 1 lb. of convector is required per square foot of steam rating, as contrasted to 4½ lbs. of cast iron radiation for the same rating. The catalog describes and illustrates covers and enclosures for the convectors, with architectural drawings to indicate pertinent roughing-in dimensions. No. 587, four pages, illus., 5/52.

385. NEW REFRACTORY BULLETIN. A new refractory bulletin entitled "Plibrico Refractory Products for Firebox and Other Heating Boilers" has just been issued by the Plibrico Jointless Firebrick Co. The bulletin covers the application of Plibrico monolithic linings to firebox and similar types of heating boilers. The catalog covers air-cooled as well as solid refractory construction. The "Multi-Rib" base is featured as adapted to this type of boiler. Also included are complete engineer's specifications for the refractory lining and outside wall construction (either brick or steel) for boilers of this type. Six pages illus., 4/52.

386. HOW TO USE SCHEDULE NUMBERS IN POWER PIPING DESIGN. A bulletin just released by Taylor Forge & Pipe Works is based on the new wall thicknesses of the 1950 edition of ASA Standard B36.10. It also includes a chart which tabulates the 1000 x P/S values for standard wall, extra strong wall and double extra strong wall pipe. B515A, eight pages illus., 4/52.

387. CONTROL OF INDUSTRIAL DUST. The Pangborn Corporation offers a two-color bulletin entitled The Control of Industrial Dust. Purpose of the book is to describe Pangborn Dust Control and its many applications. Case histories of users of Pangborn equipment are documented with photographs and performance data. Featured in the booklet is the Pangborn "CH" system of control which utilizes cloth type filters for the collection of finely divided dry dusts. A characteristic of this system is high recovery at economical cost. All elements of the system are described and illustrated, with diagrams showing how the entire system operates. Specifications on sizes and dimensions of Pangborn equipment are listed as well as construction details. Application and engineering data are tabulated according to types of dust, and collection requirements. B909A, twenty-eight pages illus., 6/52.

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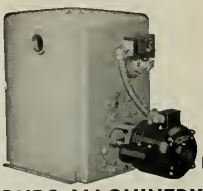
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ARIZONA ARCHITECTS SUPPORT "ABC ASSOCIATIONS" LEGISLATION

H.B. 240, which provides that no sales tax on tangible personal property shall be charged a licensed contractor where such tangible property is incorporated into any building in fulfillment of a contract, is being strongly supported by architects in Arizona.

The measure was recently introduced in the Arizona Legislature along with a companion bill, H.B. 169, which amends the Contractor's Licensing Law by requiring all contractors to furnish a completion bond on all work undertaken, unless a specific waiver of said bond executed in duplicate is secured from the owners and a copy filed with the Registrar of Contractors. This bill has passed and will become effective on June 15, 1952.

WASHINGTON STATE HOLDS ARCHITECTS EXAMINATIONS

The Architects' Examination for the State of Washington will be held from June 23-26 at the University of Washington. Those who plan to take the examination should get their applications in at least fifteen days before examination date.

Forms of application may be secured from the Department of Licenses, Olympia, Washington.

SYDNEY TOWN PLAN

(From Page 15)

standard of rural development within easy reach. The belt is to contain farms, forests and rural institutions.

Provision is being made for a standard of 10 acres of recreation space for every 1,000 of population, not including national parks and beaches. There are already 90,000 acres of national park and more than 50 miles of public beach in the planning zone. Sydney thus will always be in the forefront among Australia cities where recreation space is concerned. It has been decided that built-up areas will not be taken over for recreation areas and foreshore improvements.

Where landholders dispute acquisition terms offered by the Cumberland County, final decision will rest with an independent tribunal the New South Wales Land and Valuation Court. The planning scheme is being financed on the basis that half the money is to be raised by the Cumberland County member councils and half is to be provided by the New South Wales State Treasury.

Apart from the overall scheme, each of the 40 councils in the Cumberland County is also expected to prepare a more detailed plan for its own section. A good example is Penrith Council's subplan (approved by the planning authority) for a 60,000-population satellite city on the Great Western Highway and western railroad close to the metro-

(See Page 43)

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor & Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.

Glazed Structural Units—

Clear Glazed—	
2 x 6 x 12 Furring	$1.60 per sq. ft.
4 x 6 x 12 Partition	1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition	2.25 per sq. ft.
For colored glaze add	.30 per sq. ft.

Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Cartage—Approx. $10.00 per M.
Paving—$75.00.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll	$5.30
2 ply per 1000 ft. roll	7.80
3 ply per 1000 ft roll	9.70
Brownskin, Standard 500 ft. roll	6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll	7.00

Sheathing Papers—

Asphalt sheathing, 15-lb. roll	$2.00
30-lb. roll	2.79
Dampcourse, 216-ft. roll	2.95
Blue Plasterboard, 60-lb. roll	5.10

Felt Papers—

Deadening felt, ¾-lb., 50-ft. roll	$3.23
Deadening felt, 1-lb.	3.79
Asphalt roofing, 15-lbs.	2.00
Asphalt roofing, 30-lbs.	2.79

Roofing Papers—

Asphalt Rfg., 15 lb.	$2.09
Standard Grade, 108-ft. roll, Light	1.87
Smooth Surface, Medium	2.18
Heavy	2.56
M. S. Extra Heavy	2.96

BUILDING HARDWARE—

Sash cord com. No. 7	$2.65 per 100 ft.
Sash cord com. No. 8	3.80 per 100 ft.
Sash cord spot No. 7	3.65 per 100 ft.
Sash cord spot No. 8	3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.	
1-Ton lots, per 100 lbs.	$3.75
Less than 1-ton lots, per 100 lbs.	$4.75
Nails, per keg, base	$11.80
8-in. spikes	11.80
Rim Knob lock sets	1.80
Butts, dull brass plated on steel, 3½x3½	.76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00

Sand—

Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—

Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
Per Sack, small quantity (paper) $1.05
Carload lots, in bulk per bbl. 2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Meduse White: 1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards*	$12.00
10 to 100* yards	11.00
100 to 500 yards	10.50
Over 500 yards	10.30

* Delivered to site.

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	—	.60

Heydite Aggregates—

¾-inch to ⅜-inch, per cu. yd. $7.25
⅜-inch to ⅛-inch, per cu. yd. 7.25
No. 6 to 0-inch, per cu. yd. 7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Meduse Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosol concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shoval work in large quantities, less; hard material, such as rock, will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	⅝x2¼	½x2	⅜x2	¼x2
Clear Qtd., White	$425	$405	$	$
Clear Qtd., Red	405	380	$	$
Select Qtd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅝ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

⅝ x 2¼ First Grade	$390.00
⅝ x 2¼ 2nd Grade	365.00
⅝ x 2¼ 2nd & 3tr. Grade	375.00
⅝ x 2¼ 3rd Grade	240.00
⅝ x 3¼ 3rd & 3tr. Jtd. EM	380.00
⅝ x 3½ 2nd & 3tr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Glass	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Glass	.64 per □ ft.
⅛ in. Obscure Glass	.40 per □ ft.
3/32 in. Obscure Glass	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glazing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness
(3½") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Deivd.
V.G.-D.F. 8 & 8tr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry. 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-SIS $170.00
½-inch, 4.0x8.0-SIS 250.00
¾-inch, per M sq. ft. 315.00
Plyscord ..... 11½c per ft.
Plytorm ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square
Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patent screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.
For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Three-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (Soft - Paste)

Net Weight Packages	List Price per 100 lbs.	List Price Pr. per pkgs.	Price to Painters Per 100 lbs.	Price to Painters Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead —Red Lead in Oil

Price to Painters—Price Per Pounds	100 lbs.	50 lbs.	25 lbs.
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Seilings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only)	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLiLme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c oer sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply--$11.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per square.. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M. $240.00
Standard, 8-in. per M. 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless, (unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft... 1.85

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.
¼-in. Rd. (Less than 1 ton) $8.40
⅜-in. Rd. (Less than 1 ton) 7.30
½-in. Rd. (Less than 1 ton) 7.00
⅝-in. Rd. (Less than 1 ton) 6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton) .. 6.65
1-in & up (Less than 1 ton) 6.60
1 ton to 5 tons, deduct 25c.

STORE FRONTS (None available)

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅜"..... $ .18 - $ .35 sq. yd. Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 oer sq. ft
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—
8x5½x12-inches, per M. $139.50
6x5½x12-inches, per M. 105.00
4x5½x12-inches, per M. 84.00

Hollow Tile—
12x12x2-inches, per M. $146.75
12x12x3-inches, per M. 156.85
12x12x4-inches, per M. 177.10
12x12x6-inches, per M. 235.30
F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings *(3) refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (1)

Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(35)

AIR CONDITIONING (2)

Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58: 4851 S. Alameda St.
San Francisco: 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (3)

Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259
THE CAMBRIDGE TILE MFG. CO. *(35)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601 Franklin Building
Pasadena 8: P. O. Box 186. East Pasadena Station
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834

BANKS - FINANCING (4)

CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery Sts., EX 2-7700

BATHROOM FIXTURES (5)

Metal
THE CAMBRIDGE TILE MFG. CO. *(35)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(35)

BRASS PRODUCTS (6)

GREENBERG'S, M. & SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK (7)

Face Brick
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
REMILLARD-DANDINI CO.
San Francisco 4: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (8)

GREENBERG'S, M. & SONS *(6)

BUILDING PAPERS & FELTS (9)

ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Blvd.
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY
San Francisco 5: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (9a)

THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (10)

PACIFIC PORTLAND CEMENT
San Francisco 4: 417 Montgomery St., GA 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

CONCRETE AGGREGATES (11)

Ready Mixed Concrete
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond: 26th & B. St. - Yd. 2, RI 4307

DOORS (12)

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
F. M. COBB CO.
Los Angeles & San Diego
SOUTHWESTERN SASH & DOOR
Phoenix, Tuscon, Arizona
El Paso, Texas
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN DOOR CO.
(See above)

FIRE ESCAPES (13)

MICHEL & PFEFFER IRON WORKS, INC.
South Linden & Tanforan Ave.
South San Francisco: JU 4-8362

FIREPLACES (14)

Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St., PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (15)

Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(35)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
San Francisco: 470 Alabama St., MA 1-7766
Los Angeles: 923 E. 3rd, TR 8282
Seattle: 3440 E. Marginal Way
Diversified (Magnesite, Asphalt Tile, Composition, Etc.)
LE ROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LE ROY OLSON CO.

GLASS (16)

W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Ore.

HEATING (17)

S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 N. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
UTILITY APPLIANCE CORP. *(2)
Electric Heaters
WESIX ELECTRIC HEATER CO.
San Francisco 5: 390 First St., GA 1-2211
Los Angeles: 520 W. 7th St., MI 8096
Portland: Terminal Sales Bldg., BE 2050
Seattle: Securities Bldg., SE 5028
Designer of Heating
THOMAS B. HUNTER
San Francisco 4: 41 Sutter St., GA 1-1164

INSULATION AND WALL BOARD (18)

LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY *(9)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Stockton: 733 S. Van Buren, ST 4-9421
Sacramento 1331 - T St., HU 1-0125
Fresno: 434 - P St., FR 2-1600

IRON—Ornamental (10)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

LANDSCAPING (20)

Landscape Contractors
HENRY C. SOTO CORP.
Los Angeles: 13,000 S. Avalon Blvd., ME 4-6617

LIGHTING FIXTURES (21)

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (22)

Shingles
LUMBER MANUFACTURING CO. *(18)

MARBLE (23)

VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (24)

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

MILLWORK (25)

LUMBER MANUFACTURING COMPANY *(18)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles, 6820 McKinley Ave., TH 4196

PAINTING (26)

Paint

W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim

FORDERER CORNICE WORKS *(24)

PACIFIC COAST AGGREGATES, INC. *(11)

Exteriors

PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio

THE SCOTT COMPANY *(17)

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows

DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGEGATES, INC. *(11)

Fire Doors

DETROIT STEEL PRODUCTS COMPANY

Skylights

DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

KRAFTILE COMPANY *(33)

SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)

HERRICK IRON WORKS *(33)

SAN JOSE STEEL CO. *(33)

COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 740 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800

GLADDING, McMEAN & CO. *(3)

KRAFTILE
Niles, Calif.: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

TIMBER—REINFORCING (36)

Trusses

WYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber

J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)

GLADDING, McBEAN & CO. *(3)

KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53					
BRICKLAYERS	3.25	3.25	3.15	2.85	3.25	3.00	3.00	3.25	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	1.75	1.75	1.75	1.75	1.75
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.20	2.20	2.20	2.20	2.20
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.28	2.28	2.28	2.28	2.28
ELECTRICIANS	2.75	2.40	2.40	2.75	2.50	2.50	2.625	2.60	2.50	2.50	2.50	2.50	2.50
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.00	2.00	2.00	2.00	1.96
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.255	2.255	2.255	2.255	2.255
REINF. RODMEN	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.28	2.28	2.28	2.28	2.28
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.30	2.30	2.2375	2.30	2.30
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.50	2.50	2.50	2.50	2.50
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.40	2.40	2.20	2.40	2.40
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.33	2.33	2.33	2.33	2.33
PLASTERERS	3.00	3.15*	3.15	2.75	3.00	3.00	3.125	3.00*	2.50	2.75	2.50	2.50	2.50
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4325	2.875	2.875	2.50	2.50	2.20	2.50	2.25

* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:
CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

SYDNEY TOWN PLAN

(From Page 38)

politan area. This city will absorb the industrial town of St. Mary's and the river town of Penrith, which at present have a combined population of 8,000. The resulting decentralisation of industry and housing will have an important impact on Sydney's economy.

Eight new national and regional roads are to be built. The major arterial roads will be "express ways", protected from intersecting traffic. For safety reasons, they will by-pass residential and shopping centres. The cost of such features as the "express ways", new railway tracks and housing settlements will not be met by the planning authority, but will come from the normal funds of Government departments controlling road transport, railways and housing.

The New South Wales Railway Department, for instance, which controls all rail traffic in the State, recently let a $9,000,000 contract to a British firm (British Insulated Callenders Construction Company) for the electrification of 80 miles of railway from Parramatta west through the satellite city area to Lithgow. Work on this project has now begun, and the stretch of track will join the Sydney electric railway system by 1954.

Rail electrification to Lithgow, construction of the Southern Hemisphere's largest concrete dam 35 miles west of Sydney to step up water supply and the great Snowy Mountains Hydro-Electric Scheme between them will expand enormously the industrial potential of Sydney and Cumberland County generally.

Currently with the Cumberland plan for Sydney, two other important planning schemes are in progress. They are the Northumberland Authority's plan for the coal and steel city of Newcastle, 100 miles north of Sydney, and the Illawarra Authority's scheme for the Wollongong-Port Kembla industrial and port area, 50 miles south of Sydney. Both schemes are being conducted along similar lines to the plan for Sydney, and are being financed separately.

In her town planning schemes, Australia has laid down a framework based on the best modern practice and adapted to local needs. Town planning in Australia has received a fillip in the form of a grant by the Federal Department of National Development to the University of Sydney for research. The research will be conducted by a staff under Professor Denis Winston, Professor of Town and Country Planning in the University, and will take until the end of the year.

HOLLYWOOD JUNIOR
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SCREEN and METAL SASH DOOR
★
The "WEATHER-WISE" DOOR!!
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A SASH DOOR
A PERMANENT OUTSIDE DOOR
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WE ALSO MANUFACTURE A COMPLETE LINE OF
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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

APARTMENT BUILDING. Los Angeles, Los Angeles County. Samuel Widre & Sons, Inc., owner. 2 story, 38 room, 18 unit, 85 x 104 ft., $85,000. ARCHITECT: Oscar Liff, Beverly Hills. Frame and stucco construction, composition shingle roofing, cement, asphalt tile and oak floors, steel sash, gas heating. GENERAL CONTRACTOR: Samuel Widre & Sons, Inc., Los Angeles.

MOTOR COURT. Phoenix, Arizona. Earl Hunter & John Gusik, owners. 20 units, 1 story duplexes, 20 baths, $75,000. ARCHITECT: Cyril O. Gilliam, Phoenix. Masonry construction, built-up and mission tile roofs, 20 baths, wall gas heaters, evaporative coolers, insulation, metal lath, steel sash, tile work. GENERAL CONTRACTOR: John H. Lester, Phoenix.

CHURCH & PAROCHIAL SCHOOL BUILDING. Redwood City, San Mateo County. Roman Catholic Archbishop of San Francisco, owner. 700 seating capacity, 5 classrooms, $228,000. ARCHITECT: Blanchard & Maher, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Carl N. Swenson Co., San Jose.

WAREHOUSE, Long Beach Harbor, Los Angeles County. Long Beach Board of Harbor Commissioners, owner. 150x1300 ft., $1,073,-148. STRUCTURAL ENGINEER: J. H. Davies, Long Beach. Reinforced concrete tilt-up wall construction with prestressed girders, concrete slab roof, steel rolling doors, prestressed precast concrete girders. GENERAL CONTRACTOR: Johnson Western Constructors, Wilmington.

SHERMAN FIELD ELEMENTARY SCHOOL, Concord, Contra Costa County. Mt. Diablo Unified School District, owner. 9 classrooms, administration, kindergarten, library and toilet rooms, $301,985. ARCHITECT: Reynolds & Chamberlain, Anderson & Simonds, Confer & Willis & John Lyon Reid, Oakland. Frame and stucco construction. GENERAL CONTRACTOR: Vezey Construction Co., Oakland.

NEW ELEMENTARY SCHOOL, Corte Madera, Marin County. Larkspur-Corte Madera Elementary School District, owner. 6 classrooms, administration, multi-purpose, kitchen, kindergarten and toilet rooms, $212,500. ARCHITECT: Carl F. Gromme, Kentfield. Frame and stucco construction, 14,000 sq. ft., C.M.P. granted. GENERAL CONTRACTOR: B & R Construction Co., San Francisco.

GARRETSON HEIGHT SCHOOL. HILLCREST SCHOOL ADDITION. Rodeo, Contra Costa County. Rodeo Elementary School District, owner. 13 classrooms, administration, library, multi-purpose, toilet rooms and gymnasium building; 2 classrooms, kitchen, 2 kindergartens, multi-purpose, $544,700. ARCHITECT: John Lyon Reid, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Pacific Co., Berkeley.

SCHOOL BUILDING. Pomona, Calif. Roman Catholic Archbishop of Los Angeles, owner. 6 classrooms, offices, clinic and rest rooms, $110,700. STRUCTURAL ENGINEER: Laurence D. Viole, North Hollywood. Gunite walls, concrete slab, asphalt tile floors, plaster walls, acoustic tile ceilings, forced air heating, ceramic tile. GENERAL CONTRACTOR: Theisen Co., Pasadena.

MAR VISTA HIGH SCHOOL. National City, San Diego County. Sweetwater Union High School District, owner. Three 1-story buildings, shops, shower and locker rooms, cafeteria, $362,200. ARCHITECT: Kistner, Curtis & Wright, San Diego. Wood frame and concrete construction, composition roofing, cement slab, asphalt tile floors, metal lath, steel sash. GENERAL CONTRACTOR: B. O. Larsen, San Diego.

ADD TO FACTORY BUILDING. Southgate, Los Angeles County. South Gate Aluminum & Magnesium Co. ,owner. 1 story and mezzanine floor, 110 x 207, $162,000. STRUCTURAL ENGINEER: Richard R. Bradshaw, Los Angeles. Concrete block construction, composition roofing, curved wood trusses, steel sash, pipe columns, concrete slab floor, asphalt tile covering. GENERAL CONTRACTOR: Sapp Construction Co.

GIDLEY SCHOOL ADDITIONS, El Monte, Los Angeles County. El Monte School District. 4 classrooms, kindergarten, homemaking and shop buildings, 11,000 sq. ft., $161,-452. ARCHITECT: Kistner, Curtis & Wright, Los Angeles. 1 story, frame and stucco construction. GENERAL CONTRACTOR: Mike Harris Construction Co., Pasadena.

LOW INCOME HOUSING PROJECT. San Francisco. Housing Authority of the City of S. F., owner. 317 units, $2,244,000. ARCHITECT: Angus McSweeney, San Francisco. 2 story, row house and 3 story apartment buildings, frame and stucco construction. GENERAL CONTRACTOR: Theo. G. Meyer & Sons, San Francisco.

CLASSROOMS BUILDING. Auburn, Placer County. Placer Union High School District, owner. 5 classrooms, band room, 14 practice rooms and administration unit, $180,-966. ARCHITECT: C. A. Caulkins, Jr., Santa Rosa. 2 story, reinforced concrete and frame and stucco construction. GENERAL CONTRACTOR: Lawrence Construction Co., Secramento.

NEW SOUTHWEST ELEMENTARY SCHOOL Gilroy, Santa Clara County. Gilroy Elementary School District, owner. 7 classrooms, administration, toilet rooms, $153,500. ARCHITECT: Falk & Booth, San Francisco. Frame and stucco construction, radiant heating. GENERAL CONTRACTOR: M. C. Baldwin, Watsonville.

MAUSOLEUM ADDITION. Selma, San Mateo County. Cypress Lawn Cemetery, owner. 300 crypts, $70,000. ARCHITECT: Albert R. Williams, San Francisco. 1 story, reinforced concrete construction, marble and bronze interior. GENERAL CONTRACTOR: Dinwiddie Construction Co., San Francisco.

DECOTO ELEMENTARY SCHOOL, Decoto, Alameda County. Decoto Elementary School District, owner. 9 classrooms, administration, toilet rooms, kindergarten, remodel present auditorium into a cafetorium and kitchen, $285,500. ARCHITECT: John Hudson, Oakland. Frame and stucco construction. GENERAL CONTRACTOR: Hancock Construction Co., Lafayette.

FACTORY BUILDING. East Los Angeles, Los Angeles County. Archer D. Midland, owner. 1 story, 7200 sq. ft., $50,000. ARCHITECT: McClellan, MacDonald & Markwith, Los Angeles. Panelcrete wall, composition roofing, steel sash, concrete slab floor, plumbing and electrical work. GENERAL CONTRACTOR: Buttress & McClellan, Inc., Los Angeles.

ROANOKE SCHOOL. El Cajon, San Diego County. Cajon Valley Union High School District, owner. Administration building, classrooms, multi-purpose unit, and shower and locker buildings, $755,769. ARCHITECT Kistner, Curtis and Wright, San Diego. One story frame and stucco units, composition roofing, concrete floor, asphalt tile, insulation, marble work, metal lath, metal skylights, plate glass, reinforcing steel, steel sash, radiant heating. GENERAL CONTRACTOR: O. L. Carpenter, San Diego.

ELEMENTARY SCHOOL BUILDING, Visalia, Tulare County. Elbow Creek Elementary School District, owner. 9 classrooms, administration, multi-purpose, kindergarten, kitchen, toilet rooms, $322,200. ARCHITECT: Horn & Mortland, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: Guy Munson, Dinuba.

NEW ELEMENTARY SCHOOL BUILDING, Goshen, Tulare County. Goshen Elementary School District. 10 classrooms, administration, kindergarten, multi-purpose, kitchen, shop, homemaking, toilet rooms, $361,428. ARCHITECT: Horn & Mortland, Fresno. One story, frame and stucco construction. GENERAL CONTRACTOR: L. H. Hansen & Sons, Fresno.

ELECTRONIC PLANT, Palo Alto, Santa Clara County. Varian Associates, owner. Research laboratory, administration, shops and cafeteria, $729,838. ARCHITECT: Eric Mendelsohn, San Francisco. One story, 30,000 sq. ft., reinforced concrete construction. GENERAL CONTRACTOR: Howard J. White, Inc., Palo Alto.

NEW RUUS ELEMENTARY SCHOOL, Eden Township, Alameda County. La Vista Elementary School District, owner. 8 classrooms, administration, home economics, kindergarten, library, shop, kitchen, multipurpose, toilet rooms, $243,262. ARCHITECT: Anderson & Simonds, Oakland. Frame and stucco construction. GENERAL CONTRACTOR: Zaballaos Bros., Hayward.

DOCTORS OFFICE BUILDING, Reno, Nevada. Corporation, Dr. H. E. Cafferatta, owner. 4 suites of offices, $101,300. ARCHITECT: J. K. Ballantine, Berkeley. One story and basement, brick and frame construction. GENERAL CONTRACTOR: Walker Boudwin Construction Co., Reno.

CLASSROOMS AND LIBRARY BUILDINGS FOR CITY COLLEGE, San Francisco. City and County of S. F. Dept. of Public Works, owner. $2,326,800. ARCHITECT: Milton Pfleuger, San Francisco. GENERAL CONTRACTOR: Cahill Bros., San Francisco.

APARTMENT BUILDING. Los Angeles, Los Angeles County. F. A. LaFond, owner. Two story, 32 room, 12 unit, $65,000. STRUCTURAL ENGINEER: W. C. Chandler, Los Angeles. Frame and stucco construction, 60x85 ft., wood shingle roofing, oak and linoleum floors, composition stairs, steel sash, tile baths and drainboards, gas wall heaters. GENERAL CONTRACTOR: James E. Groce, Van Nuys.

APARTMENT BUILDING, Beverly Hills, Los Angeles County. Wagner Realty Co., owner. Two story, 24 room, 4 unit apartment, 9400 sq. ft., $60,000. ARCHITECT: Leopold

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Fischer, Los Angeles. Frame and stucco construction, shingle roofing, composition stairs, stall showers, asphalt tile work, flagstone, masonry wall, sliding doors, steel sash. GENERAL CONTRACTOR: Wagner Construction Co., Beverly Hills.

AUDITORIUM BUILDING, Buellton, Santa Barbara County. Los Alamos Elementary School District, owner. Seats 400, $92,500. ARCHITECT: John I. Easterly, Watsonville. Reinforced concrete construction, wood roof, steel trusses. GENERAL CONTRACTOR: C. M. & K. C. Urton, Santa Barbara.

NEW ELEMENTARY SCHOOL, Porterville, Tulare County. Alta Vista School District, owner. Seven classrooms, administration, home economics, toilet rooms, $274,000. ARCHITECT: Culver E. Heaton, Pasadena. 15,000 sq. ft., frame and stucco construction. GENERAL CONTRACTOR: Fred S. Macomber, Los Angeles.

LOW INCOME HOUSING PROJECT, San Francisco. Housing Authority of the City of San Francisco, owner. 317 units, $2,233,000. ARCHITECT: Angus McSweeney, San Francisco. Two story row houses and 3 story apartment buildings, frame and stucco construction. GENERAL CONTRACTOR: Theo. G. Meyer & Sons, San Francisco.

FACTORY EXPANSION, East Los Angeles, Los Angeles County. Pacific Tube Co., owner. One story, die shop, machine shop, lunch room, toilets, supply warehouse area, laboratory and offices, $500,000. ARCHITECT AND ENGINEER: Albert C. Martin & Assocs., Los Angeles. Steel frame, trusses, corrugated iron walls and roof, concrete floor slab, metal sliding doors, 50x551, brick exterior walls, steel saw tooth roof, gypsum built-up roofing, steel stud and brick interior walls. GENERAL CONTRACTOR: T. S. Construction Engineers, Inc., Los Angeles.

CAFETERIA BUILDING, Ventura, Ventura County. Ventura Union High School District, owner. Cafeteria building, $152,000. ARCHITECT AND ENGINEER: Daniel, Mann, Johnson & Mendenhall, Los Angeles. Masonry wall construction, truss roof, composition roofing, cement and asphalt tile floors, interior plaster, steel sash, acoustical ceilings, sheet metal work, terrazo toilet floors. GENERAL CONTRACTOR: Borringer & Botke, Santa Paula.

LOCKHEED EMPLOYEES ACTIVITY BUILDING, Burbank, Los Angeles County. Lockheed Employees Recreation Club, owner. 75x120 ft., $95,211. CONSULTING ENGINEER: H. L. Standefer, North Hollywood. Cement block, walls, structural steel, composition roofing, cement slab floor, steel sash, drywall interior, forced air heating. GENERAL CONTRACTOR: H. M. Keller Co., Burbank.

FIRST METHODIST CHURCH, Phoenix, Arizona. First Methodist Church, owner. 18 classrooms for church school, office section, chapel, 1000 seating capacity, fellowship hall, sanctuary seating 500, $300,000. ARCHITECT: Lescher & Mahoney, Phoenix; Harold E. Wagoner, Philadelphia, plaster and masonry walls, mission tile on hip roof sections. GENERAL CONTRACTOR: Homes & Son Construction Co., Phoenix.

EASTSIDE ELEMENTARY ROOSEVELT SCHOOL, Lancaster, Los Angeles County. Eastside Elementary School District, owner. 8 classrooms, administrative unit, 2 kindergarten, multi-use room, kitchen and home economics room, $237,000. ARCHITECT: Frank Wynkoop & Assocs., Carmel. Frame and stucco construction , composition roofing, concrete and asphalt tile floors, radiant heating, metal lath, reinforcing steel, steel sash. GENERAL CONTRACTOR: Barringer & Botke, Santa Paula.

INDUSTRIAL BUILDING, Monterey Park, Los Angeles County. Hersey Manufacturing Co., owner. 1 story, offices, 60 x 140 ft., $250,000. STRUCTURAL ENGINEER: Frank O. Bigelow, Pasadena. Reinforced concrete, tilt-up wall, composition roofing, steel sash, metal roll-up doors, concrete slab floor, asphalt tile floor in offices, forced air heating, suspended radiant heating, toilet rooms. GENERAL CONTRATCOR: O. K. Earl, Jr., Pasadena.

VINELAND AVENUE SCHOOL, Baldwin Park, Los Angeles County. Baldwin Park School District, owner. 1 story, 16 classrooms, kindergarten, administration building, multi-purpose, and kitchen unit, 22,400 sq. ft., $341,777. ARCHITECT: Kistner, Wright & Wright, Los Angeles. Frame and stucco construction. GENERAL CONTRACTOR: Stiglbauer Bros., Downey.

ADD. TO TELEPHONE OFFICE BUILDING, Inglewood, Los Angeles County. Pacific Telephone & Telegraph Co., owner. 2 story and basement, $350,000. ARCHITECT: Parkinson, Powelson, Briney, Bernard & Woodford, Los Angeles. Steel frame construction, masonry walls, terracotta work, composition roofing, slab, asphalt tile and linoleum floors, steel studs and plaster interior, marble toilet partitions, basement cafeteria. GENERAL CONTRACTOR: R. J. Daum Construction Co., Inglewood.

VILLAGE ELEMENTARY SCHOOL, Santa Rosa, Sonoma County. Rincon Valley Union School District, owner. 7 classrooms, administration, kitchen, kindergarten, multi-purpose, toilet rooms, $169,800. ARCHITECT: J. Clarence Felciano, Santa Rosa. Frame and stucco, concrete floors, asphalt tile floors, radiant heating, wood sash. GENERAL CONTRACTORS: Codding Homes, Santa Rosa.

CHURCH, North Sacramento, Sacramento County. First Methodist Church, owner. $50,000. ARCHITECT: Charles F. Dean, Sacramento. Frame and stucco construction. GENERAL CONTRACTOR: Erickson Construction Co., North Sacramento.

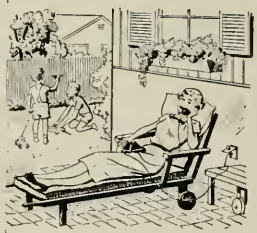
GLAZIER SCHOOL, Norwalk, Los Angeles County. Norwalk School District, owner. 1 story, classrooms, multi-purpose building, kindergarten, administration building, utility unit, $421,960. ARCHITECT: Kistner, Wright & Wright, Los Angeles. Frame and stucco construction, 28,360 sq. ft. GENERAL CONTRACTOR: A. J. Marek, South Gate.

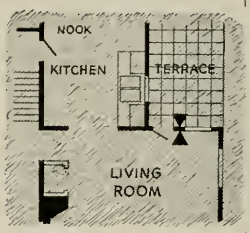
HOME ECONOMICS BUILDING, Berkeley, Alameda County. Univ. of California, owner. 4 story, 55,000 sq. ft., $1,047,237. ARCHITECT: Spencer & Ambrose, San Francisco. Reinforced concrete construction, lath and plaster partitions, metal sash, 2 elevators, composition roofing, 2 home management houses to be located on roof. STRUCTURAL ENGINEER: Hall & Pregnoff, San Francisco; MECHANICAL ENGINEER: C. M. Simonson, San Francisco. GENERAL CONTRACTOR: Parker, Steffens & Pearce, San Francisco.

OFFICE BUILDING, TWO STORE BUILDINGS, San Francisco. Stonestown Development Co., owner. $91,000. ARCHITECT: Welton Beckett, Los Angeles. Reinforced concrete construction. GENERAL CONTRACTOR: MacDonald, Young & Nelson, San Francisco.

NEW ELEMENTARY SCHOOL, Armona, Kings County. Armona Union Elementary School District, owner. 12 classrooms, administration, 2 kindergartens, multi-purpose, kitchen, toilet rooms, $424,294. ARCHITECT: Walter C. Harrison, Los Angeles. 30,200 sq. ft. frome and stucco construction, steel sash, asphalt tile, composition or shingle tile roofing. GENERAL CONTRACTOR: R. H. Hougham, Hanford.

How to plan telephone facilities for best year-around living...





Preferred locations for telephones often vary with seasons—for example, you may want to plan for a portable telephone outlet on the terrace in summer. So home owners find extra convenience in having telephones where and when they need them. Flexibility is assured by thoughtful builders who provide for additional outlets in their blueprints.

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IN THE NEWS

ARIZONA ARCHITECTS ON STATE PROGRAM

The firm of Weaver & Drover, and Robert Blakey, two Phoenix architectural firms have been chosen by the board of control to plan a $2,179,000 building expansion program for the Arizona State Hospital in Phoenix.

The program includes a 200-bed convalescent ward building; a new 100-bed building for tubercular patients; and two new buildings for senile patients.

CITY HALL BIDS REJECTED

The City of Concord, California, recently rejected bids for the construction of a new one-story, 5000 sq. ft., reinforced concrete and frame City Hall.

Bid submitted was $100,719.

ARIZONA HIGHWAY ENGINEER HONORED

William E. Willey, engineer, Department of Economics and Statistics of the Arizona Highway Department, has received a master's degree in civil engineering from his alma mater, the University of Illinois.

The degree was conferred for a two year study of the need for an extra lane for passing trucks on uphill highways.

ARIZONA CHAPTER AIA CHOOSES DELEGATES

At the recent annual meeting of the Arizona Chapter, A.I.A., the following were elected official delegates to attend the national convention in New York City:

Fred Weaver and Ed Varney, Phoenix; Gordon Luepke and Fred Knipe, Tucson; and Martin R. Young, Mesa, alternate.

Membership in the Chapter includes 37 corporate, 12 associate, and 14 junior associate members.

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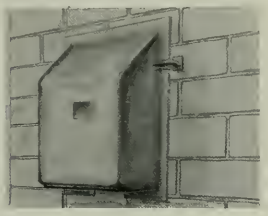
SCHOOL BONDS APPROVED

Voters of the Sequoia Union High School District, Redwood City, California, recently approved a bond issue of $2,250,000 for construction of additions to the San Carlos-Belmont, Menlo Park-Atherton, and Sequoia high schools.

NEW TYPE ZENALOY GAS METER COVER

To meet the need of localities where climatic conditions make it inadvisable to install gas meters and regulators directly on the ground, the Gordon Z. Greene Co. of Los Angeles has developed a meter cover to be attached to the side walls of residences or other buildings.



Made of a new metal, Zenaloy, composed of glass fibers and polyester resins, the meter covers combine handsome appearance with strength and lightness. They protect the regulator from vent freeze-up; prevent deterioration caused by elements; minimize maintenance cost; and are easy to ship and store; available at low cost.

ANNUAL BRICKLAYER MASTER COMPETITION

The Fourth Annual Brickmason apprentice National Competition was held May 18 to 24 in Boston, Massachusetts, with eighty finalists competing.

Winner of the event was presented the Belden Trophy, offered by America's brick and tile manufacturers and will also be the honored guest of the Structural Clay Products Institute annual cruise to Bermuda in November.

The contest is designed to promote higher standards of apprentice training as well as determine the nation's outstanding brick mason apprentice.

NAMED SALES DIRECTOR FOR SOUTHERN CALIFORNIA

The Richard S. Dawson Company of Los Angeles has been appointed sales representative for Bell & Gossett Company's industrial plants in Southern California, according to a recent announcement.

LOS ANGELES HOME SHOW

"The Californian," a home primarily designed to accentuate California's casual manner of living, will be one of two colorful model houses displayed at the 1952 Home Show, to be held at Hollywood Park from August 22 through September 1.

It will be a modern contemporary home, designed by Thornton M. Abell, A.I.A. Architect of Southern California; will contain 2,192 sq. ft. and will utilize free use of space both inside and outside the house. It is expected to be in the $25,000 to $28,000 price range.

The annual Home Show, which last year drew a 200,000 attendance, is sponsored by the 13 southern California construction industry associations and the Los Angeles Chamber of Commerce.

AMERICAN SOCIETY FOR TESTING MATERIALS

Robert J. Painter has been appointed Treasurer of the American Society for Testing Materials, succeeding John K. Rittenhouse who was retired after 43 years service with the national technical group.

Dorothy P. Douty has been named Assistant Treasurer.

NEW CONTRACTING FIRM FOR PHOENIX

The Phoenix Paving and Contracting Co., Jack M. Voita, president, has been organized for the purpose of engaging in all types of highway, street and heavy construction.

General offices of the new organization will be maintained in Phoenix.

Other officers include Max W. Haist, vice president, who was formerly with the engineering department of the City of Phoenix.

NEW LIBRARY BUILDING

The Stockton Board of Education has commissioned the architectural firm of Mayo & Johnson, same city, to design and handle details of constructing a new $630,000 library building on the Stockton College campus.

The new building will be two-story reinforced concrete and the CMP has been granted.

NEW BUILDINGS FOR S. F. CITY COLLEGE

Plans have been completed by the City and County of San Francisco for the construction of a new classroom and library buildings on the campus of the City College of San Francisco.

Estimated cost of the work is $2,314,123.

FACTORY SITE PURCHASED

Timber Structures, Inc., Oakland, have purchased a new office and factory site in Richmond, Contra Costa county.

Plans for construction of the modern building containing general office and manufacturing facilities will be announced soon, according to company officials.

ARCHITESTS MOVE TO NEW OFFICES

Daniel, Mann, Johnson & Mendenhall, architects and engineers, have moved into larger quarters at 4201 Sunset Blvd., Los Angeles, according to a recent announcement.

The new facilities include 9000 sq. ft. of space and provide 14 offices plus a specially designed drafting room.

BURBANK BUILDER ON LICENSING BOARD

H. Cedric Roberts, Burbank building contractor, has been reappointed to his third term as a member of the California State Contractors' License Board by Governor Earl Warren.

Roberts, who has served on the state board for the past eight years, has been active in Southern California construction

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for 29 years and has served as regional vice president of the National Association of Home Builders. He has also served as president of the Building Contractors Association of California, a director of the Home Builders Institute, and a director of the First Federal Savings & Loan Association of Hollywood.

STATE AID FOR SCHOOL ADDITION

The Mt. Diablo Unified School District, Concord, California, recently approved a school bond issue of $850,000 with funds to be used for the construction of additions to the present school buildings.

The district also received a state loan of $250,000 to be used for the same project.

NEW "INBUILT" LIGHTING SYSTEM

"Skylike," a modular incandescent lighting system with unusual features, has just been announced by the Smoot-Holman Company of Inglewood, California.

It is designed for built-in modern architectural use, and is economical to install. Individual units employ lamps with silvered or semi-silvered bowls allowing variable light control from a widespread to a more concentrated distribution by an interchange of bulbs.

Complete information is available from the manufacturer.

ARCHITECT SELECTED

Architect Walter Wagner of Fresno, has been selected by the Merced Elementary School District to draft plans and specifications for the construction of a new elementary school and for additions to the present elementary schools in Merced, California.

Cost of the project in approximately $600,000.

COTTON WAREHOUSES FOR SAN JOAQUIN VALLEY

The California Cotton Cooperative Association with headquarters in Bakersfield, has announced the construction of twelve one-story wood frame and sheet steel exterior cotton warehouses in the San Joaquin Valley.

Estimated cost of construction is $750,000.

HIGH SCHOOL GYMNASIUM

The Armijo Union High School District, Fairfield, California, recently held a special election for the purpose of submitting a $152,000 bond issue to voters of the district.

The project was approved and funds are to be used for the construction of a new gymnasium building at the high school in Fairfield.

COURT HOUSE ADDITION FOR CITY OF YREKA

The Board of Supervisors of Siskiyou County (California) has approved an expenditure of $217,000 for the construction of an addition to the county court house in Yreka.

Robert Keeney, Medford, Oregon, is the architect.

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ARCHITECT AND ENGINEER

JULY 1952

housekeeper's helper

when keeping house is a business proposition

...new colors of easy-to-clean Suntile

Cleanliness is a dollars and cents matter in industrial kitchens or cafeterias, in food or drug plants laboratories or public buildings. In fact, cleanliness is a "must."

Your selection of the right material for walls and floors will have much to do with the cost as well as the ease of cleaning and maintaining these interiors.

For instance, real clay Suntile has a hard, impervious glazed finish that is easy to clean with inexpensive soap and water. Dirt, grease, and smudge find no haven with Suntile. Costly, periodic redecorating and refinishing are ended practically for the life of the building.

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This very practical result is typical of the new Suntile functional color line. Better lighting, increased production, fewer accidents and higher employee morale are other results with sound business advantages.

HOW TO SELECT COLORS THAT ARE RIGHT for commercial, industrial and institutional interiors is discussed in our new descriptive booklet "Suntile Functional Color Recommendations." Your Authorized Suntile Dealer will give you a free copy or you may write us direct, Dept. AE-7, The Cambridge Tile Mfg. Co., P. O. Box 71, Cincinnati 15, Ohio .

Suntile

GRAY HAUTEVILLE 734
a neutral tone
of great service

Suntile Gray Hauteville is a mottled gray tone. Gray has widespread use in many different types of interiors. The mottled effect makes it even more practical. This new gray is a warm, neutral color that avoids the "faded" tints of the past. It helps to control glare and create working conditions where vision is at its best. For obvious reasons mottled gray tends to combat dirt, smudge and stains. Suntile Gray Hauteville is but one of the functional colors in the new color line developed by Faber Birren, noted color authority, and The Cambridge Tile Mfg. Co.

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• ARCHITECT AND ENGINEER

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Book Reviews

★

COVER PICTURE

SEA WOLE RESTAURANT
Oakland, California

Designed by architect Harry Bruno, AIA, and built by the Port of Oakland as a part of the new Jack London Square situated on a portion of the city's waterfront made famous by the story book writer Jack London.

See page 22 for complete story and additional photographs.

Photo's by Herrington-Olson

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. EDITORIAL NOTES .

JUVENILE DELINQUENCY

One of the most startling reports on juvenile delinquency, as a major problem in metropolitan cities, was recently made public by the Los Angeles Police Department.

Conducted under the direction of W. H. Parker, Los Angeles Chief of Police and made at the request of the Los Angeles City Council, the survey reveals that public housing, even where bordering private residential areas, presents a "problem" to police authorities.

Extra amounts of expensive police protection are required for existing tax subsidized public housing projects. At least 40 per cent of police time spent in juvenile investigation in one area of Los Angeles was devoted to public housing projects.

Measured in terms of dollars and cents, another public housing project of 1,592 persons required an expenditure of $25.80 per person for policing as against the average cost per Los Angeles citizen of $12.04. Altogether, the Los Angeles bill for police services around public housing units was $332,306.

Police help per 1000 population in a privately owned and developed subdivision average .8 per cent, whereas the report shows in one public housing area the average was 20 calls per 1000 population.

Regardless of any other factor the Los Angeles survey shows that where there is lack of ownership and responsibility of property there is a deteriorating individual attitude toward the basic American family tradition.

* * *

Conditions in Washington are about normal. A correspondent for a newspaper called a Federal agency to learn how a "home-town" project was progressing, and after being shunted from one telephone extension to another wound up with an official on the other end of the line who advised—"I suggest you call your home-town newspaper."

* * *

GOVERNMENT THAUMATURGY

Some people live and learn—others just live!

The complete debacle that overtook the theoretical wage-price program in the steel crisis shows how completely ill conceived the program turned out to be, and while the recent steel dispute focused the spotlight of public attention on the nation's present critical economic and serious political problems, it should not be assumed by anyone that the Wage Board's future policies in such matters will be changed as long as the present combination of labor and so-called "public" members of the Board are in control.

As a matter of conjecture, the contrary is probably true in that the same majority which prevailed in determining the Board's steel policies have upon numerous instances succeeded in ramming through recommendations that were of equal import to the public and industry, although comparable public reaction did not result.

There are those who contend the overall program has supplied a breeding ground for things abhorrent to American tradition, however, it is certain that whether the Wage Board shall be continued or allowed to die, is directly up to members of Congress as unless some action is taken the present Defense Production Act will expire on June 30.

* * *

There are nearly forty-six million dwelling units in the United States, according to the 1950 Census. This is an increase of 8,550,000 or 23% since 1940.

* * *

ELECTION PREDICTION

You can tell by the excitement and talk of all your friends and neighbors that next November 4th is going to be a truly "great day" throughout all the United States, and that in conformity with the cardinal principal of a free people unshackled by tyranny or tyrant, voters will go to the polls to decide one of the most important and exciting elections in the nation's history.

We are willing, at this early date, to stick our neck out and make a "sure-fire" election prediction!

We predict — if YOU are not PROPERLY REGISTERED, You Will NOT VOTE.

Fortunately it is the Law of the United States and of every town, city, county, and state thereof that if you are not registered, you cannot vote.

Right now is an excellent time to make sure that you are properly registered, and that you are not going to be caught sitting on the sidelines on Election Day—unable to cast your all important vote for your favorite candidate, and for the many other vital matters which will be submitted to the people for their approval or rejection on the General Election ballot.

You owe it to yourself, your family, your children's family and to your country to make sure . . . First, that YOU are REGISTERED, and second, that your friends, your relatives, and your neighbors are all registered and thus properly qualified to VOTE at the General Election on November 4th.

* * *

Last year the volume of new construction put in place in the nation exceeded $28-billion, and so far this year the rate has exceeded that of the comparable period in 1950.

NEWS and COMMENT ON ART

ARTIST AWARDED MEDAL BY THE AMERICAN INSTITUTE OF ARCHITECTS

Marshall Fredericks, Detroit, Michigan, sculptor has been awarded the Fine Arts Medal of The American Institute of Architects with the award being made at the Institute's 84th Annual Convention in New York City.

Fredericks is now primarily engaged in the development of the Cleveland War Memorial, sculpture for Ohio State University, and the Fort Street Union Depot in Detroit. Among recently completed work is a war memorial at the University of Michigan and sculpture for the Detroit Veterans Memorial Building.

CALIFORNIA SCHOOL OF FINE ARTS

Summer Sessions offered by the California School of Fine Arts, San Francisco, offer a general program in both day and night classes, which if combined present a maximum of six credit units.

The day classes include such subjects as Painting, Landscape Painting, Portrait and Figure Painting and Drawing, Painting Elements; Drawing from Nature, Life Drawing; Graphic Printing Techniques, Lithography, Etching, Engraving, Silkscreen; Design, Two-Dimensional Design, Color, Sculpture, Workshop, Ceramics, Jewelry; Commercial Art, Advertising Art, Illustration and Photography; How to Read a Photograph, and the Photographic Process.

In the night classes Painting Fundamentals, Painting, Life, Space Materials, Ceramics, Advertising, and Color and Design are being offered.

Two special courses are being offered this year. Visual Communication with Ernest Mundt, director; and Arts in Architecture, with Mundt also the director.

The regular schedule of Summer Classes opened June 30th and will close on August 8.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan will offer an exhibition of paintings by Dorr Bothwell and Bob Anderson, and an exhibition of Wood Sculpture by David Lemon during the month of July.

The Bothwell group includes thirty paintings made during 1950, 1951 and 1952, while the Anderson exhibit includes a series of ten paintings.

The Pictures of the Month feature a group of Paintings in Wet Clay by Sarah Ryan.

PORTLAND ART MUSEUM

Thomas C. Colt, Jr., director of the Portland Art Museum, West Park and Madison, has announced

(See page 31)

PORTLAND ART MUSEUM
West Park & Madison

EARLY HOUR
by
CARL HOFER

From the collection of Contemporary Paintings

RARE BLENDING OF ARTISTRY AND ARCHITECTURE . . . ENTRANCE

AMERICAN TRUST COMPANY'S NEW GARDEN BANK

San Mateo, California

W. D. PUGH, A.I.A., ARCHITECT

WILLIAMS & BURROWS, GENERAL CONTRACTOR

DETAIL OF PATIO ENTRANCE

Flagstone walled plant area, center plant square, spacious grassed area — plus brick walls of building are features of this new bank building.

An outstanding example of how a commercial building can be designed to serve its community and blend into the beauty of its suburban surroundings is the new Garden Bank at San Mateo, California, designed by architect W. D. Pugh, A.I.A., for the American Trust Company of San Francisco. It is distinguished by several unique features: Its location and original design, landscape setting, extensive use of glass, outdoor garden patio, spacious tree-shaded parking area, a sun deck for the employees.

San Mateo is a residential community noted for

PATIO ENTRANCE . . . Served from Auto Parking Area at Rear

NEW GARDEN BANK . . .

its fine homes and attractive gardens and in the heart of these surroundings is the Garden Bank. At the rear of the property is a large city park with shade trees, recreation facilities for mothers with small children and tables for family picnics.

No marble columns, high vaulted ceilings or the traditional architectural standbys greet the customers as they approach and enter the building. Instead, the effect is one of huge expanse of glass, decorative tile and brick with streaming sunlight and soft shadows, plus a scattering of flowers in a score of varieties and colors.

Designed in the shape of an irregular "L," this unique banking structure extends for 107 feet on Fourth Avenue and 85 feet on San Mateo Drive. Set diagonally across the property at this street intersection is the main entrance with its copper trim, utilizing more than 160 sq. ft. of plate glass in the double glass doors and overhead windows 18 feet high. This doorway is flanked by vivid-tinted walls in squares of Tennessee Crab Orchard stone and angled stone window boxes—the only entrance of its kind on the Pacific Coast.

More than half of the bank's entire wall length is taken up by large windows of heat-resisting plate glass, which appears tinted a blue-green from the outside and clear from the inside. It deflects the sun's rays to allow light, but not heat, to enter the interior.

A spectacular outdoors patio, or enclosed formal garden, occupies the open area at the rear of the building. Green lawns, shrubs, citrus trees, multi-colored flowers, stone paved walks and benches are included in this garden setting. Customers can come from the parking area and enter the banking room from this garden patio through another set of glass doors identical to those at the front entrance.

Immediately beyond the garden and separated from it by a redwood lattice fence is the paved parking area, which will accommodate 40 automobiles. Venerable oak trees which measure more than nine feet around the base have been left to

EXECUTIVE DEPARTMENT . . . Situated for Customer Convenience

shade the area, which is bordered by flower beds and shrubs, forming parking islands. Spacious parking lanes have been laid out so that women customers will have plenty of room for backing and turning their cars. The parking lot is reached by a 20-foot driveway, entering from Fourth Avenue.

Other flowers and shrubs almost completely surround the building. Planting boxes of stone to match the wall facing extend in a continuous line from the end of recessed window areas right up to the front entrance doors. Both window areas are set back about 15 feet from the sidewalk to form the garden sections planted in flowers and shrubs, which are watered by a special sprinkling system.

The entire area, from the sidewalk line at the front entrance, the vestibule and the public area inside the bank and out to the patio, is paved with 20-inch perfectly matched squares of Virginia Greenstone. It is black-green with sparkling highlights created by quartz particles. Unlike other hard floor surfaces commonly used in banks and other public buildings, this stone provides sure footing even in wet weather.

Another type of Tennessee stone was selected for use in the sills, wainscoting, planting boxes, facing and window trim. Its coloring ranging from rose-tan to brown shading produces an Old World tile effect.

A long, thin, red brick was used for the main exterior surfaces. It was selected for its color and unusual hardness and was cut to size on the job. The brick proved so hard that more than 2500 circular power saw blades were used in the cutting process.

Sunlight streams into the interior from all sides during the day. The banking room and work areas seem to be undergoing an almost constant changing transformation as the natural light and shadows change with the sun and the cloud patterns in the sky.

Recessed into the acoustical tile of the main floor ceiling are spotlight type lighting units, designed to eliminate any glare when artificial illumination is used.

The fixtures and wood trim are of bleached

(See page 32)

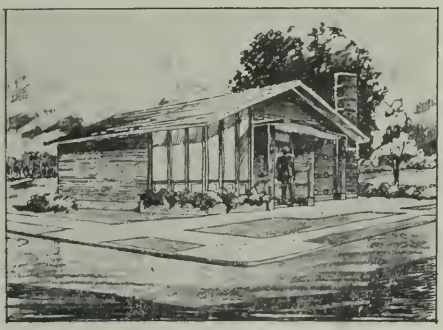
GENERAL BANKING FACILITIES . . . Natural Lighting, Friendly Atmosphere

Photos by J. L. Estono Studios

DENTAL BUILDING

Dr. John W. Olsen, D. M. D.

Nyssa, Oregon



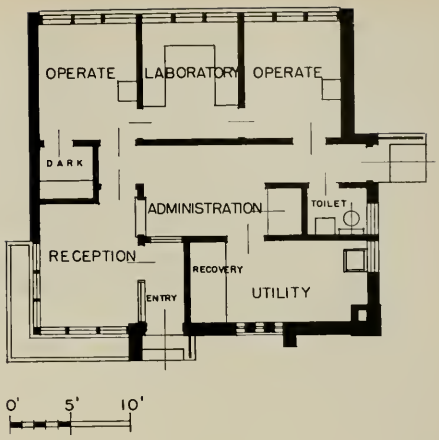
MORGAN H. HARTFORD

A.I.A.

ARCHITECT

This modern design one story gable roofed building of full masonry construction contains complete facilities for a Dental Clinic. Reception Room, Operating Rooms, Laboratory, Dark Room, Recovery Room, Business Office, Toilet and Utility Room are provided.

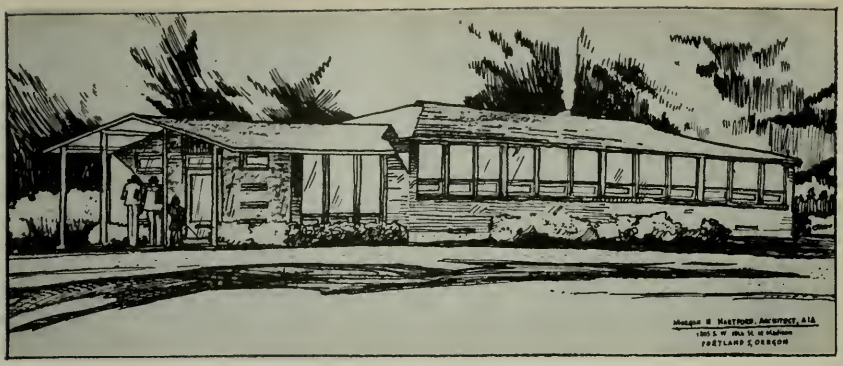
Floors are of asphalt tile, ceilings of acoustical tile, all interior walls of painted masonry block. Office doors are slab birch. Exterior is concrete base, brick veneer walls with Redwood boarding on eave soffits and ceiling of Reception Room. Aluminum Lock shingles are used on the roof to reduce infiltration of summer heat. The roof space is ventilated through slotted eave boards and gable vents. The attic is insulated with rock wool.



Heating plant is oiled fired forced filtered air type. Both incandescent and fluorescent lighting are installed. Reception Room has full length modern windows. Overhanging eaves and heat absorbing glass are designed to minimize sun glare during the heat of day.

OPERATING ROOM

RECEPTION ROOM



DENTAL BUILDING

Dr. Wm. W. Howard, D. M. D.

Portland, Oregon

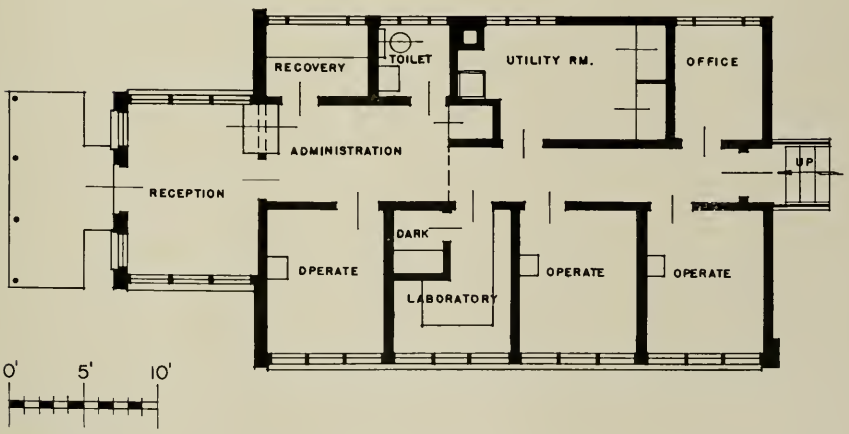
MORGAN H. HARTFORD, A.I.A.

ARCHITECT

This modern design one story gable roofed building of wood frame, brick veneer and stucco construction contains complete facilities for a Dental Clinic. Reception Room, 3 Operating Rooms, Laboratory, Dark Room, Recovery Room, Business Office, Private Office, Toilet and Utility Room are provided. Location is in suburban Portland, Oregon.

Reception Room is carpeted. Floors are of asphalt tile, ceilings of acoustic tile. All interior walls are of painted plaster. Office doors are slab Birch. Exterior is concrete base, brick veneer and stucco walls with Redwood boarding on eave soffits and porch ceiling. Aluminum Lock shingles are used on the roof to reduce infiltration of summer heat. The roof space is ventilated through slotted eave boards and gable vents. The attic is insulated with rock wool.

Heating plant is oiled fired forced filtered air type. Both incandescent and fluorescent lighting are used. Reception Room has full length modern windows overlooking garden. The building faces East to provide North light for Operating Rooms and Laboratory.



SAKS FIFTH AVENUE

RENOVATION OF

SAKS FIFTH AVENUE

San Francisco, California

BURKE, KOBER & NICOLAIS, Architects

ERNEST BONNAMY, Consulting Architect

DINWIDDIE CONSTRUCTION COMPANY, General Contractors

When Saks Fifth Avenue acquired the building at the corner of Grant Avenue and Maiden Lane in San Francisco, and commissioned the architectural firm of Burke, Kober & Nicolais of Los Angeles to re-design the structure into a replica of Saks Fifth Avenue New York store, it was little realized that to remodel the building would require almost complete new construction.

The old building, while conceeded architecturally as belonging to an era of a number of years ago, was one of the first new downtown store structures to take shape following the great earthquake and fire of 1906, and it was presumed that basically, at least, reconstruction could be accomplished without encountering too many complications.

Dinwiddie Construction Company, general contractor, soon found that much of the basic structural methods, materials, and design used in the initial building were inadequate to serve as a foundation for the new structure. The result was that today's building represents almost an entirely new project, very little of the old structure being used in the new Saks Fifth Avenue store.

These construction problems enabled the architects to design a modern store with every facility to better serve a particular type of customer. Saks Fifth Avenue in New York City is internationally known and recognized for its quality of service, quality of merchandise, and quality of customer. The San Francisco store was intended to serve the same purpose on the West Coast, therefore, a great many defects in the original building were turned into opportunities to rebuild the store in keeping with the firm's long established policies.

About the only recognizeable feature today is the freight elevator which serves the basement to third floor with street entrance on Maiden Lane. This equipment serves only in the handling of freight and has sufficient capacity for present needs.

Two strictly modern automatic, self leveling floor elevators have been installed at the left of the store's main entrance on Grant Avenue, which serve customers from the basement to the third floor. For additional use by those who desire to

use it, a wide stairway was placed immediately adjacent to the passenger elevators. This stairway would also serve as well protected areas in the event of a military emergency.

Recessed picture-frame type displays have been located in the elevator alcove on the street level or main floor, and each department throughout the store has been designed to serve in the form of individual shops. All of the partitions are new, and in the case of the main floor the entire area of the street display windows has been left open and is controlled by curtains only. This provides greater flexibility in presenting window displays, and would permit, if desired, use of the street windows as a visual entrance into the entire ground floor.

Each of the three main merchandise selling floor areas is covered with a wall-to-wall rug, colors varying to harmonize with fixtures and motif of individual displays.

The furniture and fixtures were especially designed by Ernest Bonnamy, well known architect and designer of New York City. Bonnamy also personally supervised the interior design and color harmony throughout the store, much of which is identical to the firm's New York store.

Each floor is served by an air conditioning unit which permits fixing of temperatures as desired in any given area. Thus temperatures may be adjusted in the fur department, or sports department, by automatic thermostat. The system also provides a thorough air conditioning circulation. A master control of the entire unit has been installed in the basement in the area used by building maintenance personnel.

General lighting throughout the new building features indirect installations with origin above

BUILDING as it appeared prior to start of remodel . . . This was one of the first "modern" store buildings to be built following the earthquake and fire of 1906

fixture height and placed in recesses along the walls. Where special emphasis on lighting is desired to highlight some particular showcase, fixture, or merchandise, spot flood lights have been placed in the ceiling.

As a safety measure against fire and to comply with sound principles of modern store design, city ordinances, and insurance regulations, a new automatic sprinkler fire system has been installed.

Another feature of Saks Fifth Avenue is the utility purpose of the general customer areas. While no effort was spared in designing the store to offer a maximum in merchandise display fixtures, and display furniture both glassed in and exposed, no actual selling is done here. Individual customer rooms have been provided on the second and third floors where merchandise is examined at leisure, fittings are made, and other desirable facilities are offered the customer. Each room is equipped with an individual telephone.

Ample space has been provided in all desired areas for supplemental merchandise, however, storage space is limited to only bare necessity. A large warehouse in another location is maintained for the handling of larger quantities of merchandise.

BASEMENT

Arrangement of the building proper includes a

AFTER REMODEL . . . About the only similority with old building is overall shape and street-alley location. Modern exterior emphasizes small windows, decorative balcony at second floor. General design is similar to company's New York store.

spacious basement which is used for a number of store funcations. The credit, sales, and auditing departments are located directly in front of the passenger elevator, and while each departmental operation is separated from another, the partitions are modified in height thus giving the feeling of spaciousness throughout the area. Customer services are also located in the basement.

Special facilities for alterations, a work room, merchandise receiving, merchandise shipping, and a 40-person employee cafeteria are also to be found in the basement.

STREET FLOOR

The main, or street floor, is served by an attractive entrance on Grant Avenue. Another entrance has been provided on the Maiden Lane side of the building. Both store entrances usher customers into a spacious central area. Individual shop-departmentals having all the characteristics of attractive, personalized stores, are served from the center open-space section and an elevator alcove at one end of the building provides modern automatic transportation to the basement, mezzanine, and two upper floors. Immediately adjacent to the passenger elevators is a stairway which serves the same portions of the building and may be used if so desired.

A number of large mirrors are used on the main floor. The major building support columns are covered with mirrors and the general impression upon entering the store is one of spaciousness, light, and compatibility.

Featured merchandise on this floor includes accessories, hosiery, jewelry, gloves, bags, shoes, and millinery.

MEZZANINE

The mezzanine has been devoted to the executive offices of James J. Ludwig, general manager of the San Francisco store. Facilities for a private secretary-receptionist and waiting room are also provided, the location being near the passenger elevators and stairway.

SECOND FLOOR . . . Showing efficient arrangement of merchandise displays, specially designed fixtures, and placement of overhead spot and indirect lighting.

Personnel department is also located on this floor. Some storage space has been provided to meet limited auixiliary merchandise requirements, but the majority of space has been devoted to a shoe and fur repair department; a general display department which has charge of displays throughout the store, store windows, and special exhibit activities which may be participated in by the store management.

The mezzanine is equipped with complete air conditioning, automatic fire extinguisher, and to minimize noises the ceilings are covered with acoustical tile.

SECOND FLOOR

Design of the second floor has been carried out in the Louis XV motif with furniture and decor following traditional lines. Soft colors harmonize with merchandise displays and a feeling of hominess prevails.

Merchandise featured on the second floor includes furs, suits, and the firm's better ready-to-wear lines.

THIRD FLOOR

The third and top floor of the remodeled building has been carried out by the architects and designers in the Provincial motif. A central display area faces the elevators and from this is arranged areas for handling sports wear, dresses, lingerie, and corsets.

In commenting on the public's acceptance to the general arrangement of the building and its merchandising facilities, general manager James J. Ludwig declared "Ernest Bonnamy, of our New York offices, has had wide experience in developing interior designs harmonious to the type and functions of Saks Fifth Avenue store, and he has carried them out to a fine degree in San Francisco. The result has been an immediate and favorable public response," furthermore he pointed out, architects Burke, Kober & Nicolais and general contractors Dinwiddie were faced with a number of unusual circumstances in planning and consummating the actual building remodel, and the success of their efforts is shown in the building itself.

PHOTOGRAPHS—Pictures on pages 16, 19, 20 and 21 are by Philip Fein, Photographer, ASMP; Picture on page 18 is by John Black & Associates.

INTERIOR . . . Showing One of the Major Merchandise Display Areas.

HISTORIC JACK LONDON SQUARE

SEA WOLF RESTAURANT

HARRY BRUNO, A.I.A. Architect

VEZEY CONSTRUCTION COMPANY, General Contractors

The fabulous new Sea Wolf Restaurant which has been built by the Port of Oakland as an important part of the city's new and historic Jack London Square project on a portion of the waterfront made famous in fiction and fact by the world-famed writer Jack London, was designed by architect Harry Burno, AIA, in keeping with the intriguing waterfront atmosphere and the spirit of Jack London.

The over-all design of the building is greatly influenced by the unusual situation of a water side view. The bar and dining room face the Oakland Estuary and the inner Harbor so that diners have a full view of the ocean going vessels and world shipping commerce passing before them.

The main entrance to the building which has been constructed of beautiful California Redwood, is on a circled drive that terminates the lower end

DETAIL
Slope of roof; exterior side paneling; landmark tower with serpent head design of "Sea Wolf."

Plastering by
Wallace Smith

of Broadway at the Jack London Square. On the opposite, or Estuary side, is another entrance designed by the architect to serve patrons arriving at the Sea Wolf by private yacht and power cruisers.

The building itself gives a wind-swept, driftwood, impression to the viewer with its long sloping roof and many sharp angles. On top of the roof is a gracious square spire which acts both as a distinct landmark and may be seen for quite a distance in all directions, and also serves as the background for the serpent head reverse channel lighting of the large neon sign "Sea Wolf."

Interior decorating of the building is lavish but at the same time follows the exterior theme. The dining room is coral pebble tone and the walls are a natural brown cork which sets off a series of watercolor paintings of the Oakland Harbor framed in white, the work of the muralist Guy Maccoy.

Most of the wall paneling is finished in redwood and oak and the ceiling is reminiscent of a ship with wooden beam stanchions. The dining room tables are designed for a view purpose and face the waterfront. In the center three bankettes form a clover leaf pattern about a planter containing tropical growth. Lighting is soft and indirect, so as

COCKTAIL LOUNGE

Has been equipped with specially designed Swedish modern furniture. Patrons enjoy a full view of the famed Estuary and world-wide shipping.

not to detract from the view.

The Cocktail Lounge has been furnished with custom designed Swedish modern furniture. In the center of the Lounge is a free form planter eight feet long. It is decorated with white chipped marble, Japanese floats, driftwood logs and ceramics placed about tropical plants. The bar is a serpentine shape following the Sea Wolf insignia, and this has been done in corina and finished in a driftwood effect.

The Captain's Room, which was designed to accommodate the overflow of customers from the Cocktail Lounge, is intended to give the yacht and power boat enthusiasts of the area a warm respite from the night winds off the Bay. It is equipped with a unique fireplace set in a stone wall and served by an exposed copper room-flu. This room also has been pleasantly furnished in Swedish furniture and low coffee tables.

Swedish furniture has been used throughout the lobby which features four plastic screens of copper fish forms, designed and produced by Emil Nor-

DINING ROOM

The main dining room, with its exposed overhead beams, has large glare free glass windows overlooking the Estuary and waterfront commercial district.

Modernfold decorative doors that fold instead of swing, have been installed throughout the interior.

CAPTAIN'S ROOM
Designed for overflow from the adjacent Cocktail Lounge.

Unique fireplace and masoary wall was built by J. H. Barrick.

man. Even the ladies powder room follows the sea atmosphere with a wall paper picturing mermaids backing a full length mirrored vanity. Chairs are finished in black, setting off the paper.

The Sea Wolf is functional, not only in its dining room design, but also in its kitchen layout. All equipment is steam operated and every item laid out to save steps and increase worker convenience in operation. Everything represents the newest style of product and all are of stainless steel. The most amazinz installation in the building is probably the five mammoth walk-in freezers which have been constructed separately to keep the various types of food in separate areas for convenience and health reasons.

Harry Bruno, the Sea Wolf's designer, has been an active architect in Oakland and the Bay area since 1937, and this new structure is an outstanding tribute to his originality of design. Other projects designed by Bruno in the Oakland area include the Pacific Employers Insurance Building at Piedmont and MacArthur Avenues and a large number of homes and industrial buildings.

The Sea Wolf Restaurant
Jack London Square, Oakland

★

Harry A. Bruno, Architect

★

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Northern California Chapter:
Albert R. Williams, President; Donn Emmons, Vice-President; William Corlett, Secretary; Bernard J. Sabaroff, Treasurer. Helen H. Ashton, Office Sec., Offices 369 Pine Street, San Francisco.

SOUTHERN CALIFORNIA CHAPTER

Miss Elizabeth Banning, Color Consultant of San Francisco; Alfred S. Nibecker, Business Manager and Architect, Board of Education, City of Los Angeles; and Charles D. Gibson, head of the Southern Division, Office of School Planning, California Department of Education, spoke at the July meeting on subjects related to their professions.

Special guests at this diversified meeting included James E. Byers, Chief of the Building Branch; Ernest R. C. Billerbeck, Associate Architect, Los Angeles City Board of Education.

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A.I.A. PRESIDENT HONORED

President Glenn Stanton of The American Institute of Architects, and a practicing architect of Portland, Oregon, was recently made an Honorary Fellow of the Royal Architectural Institute of Canada.

NORTHERN CALIFORNIA CHAPTER

Albert R. Williams, AIA, Architect of San Francisco, was re-elected President of the Northern California Chapter of The American Institute of Architects at the Chapter's recent annual meeting.

ALBERT R. WILLIAMS
President

Chosen to serve as officers during the coming year were: Donn Emmons, Vice-President; William Corlett, Secretary; Bernard J. Sabaroff, Treasurer, and Helen H. Ashton will continue to serve in the capacity of office secretary in charge of the Chapter's offices which are maintained at 369 Pine Street in San Francisco.

Mario J. Ciampi, Chairman for Relations with

Oregon Chapter:
Clarence H. Wick, President, 90 Spaulding Bldg., Portland; Lowell F. Anderson, Secretary, 11541 S. W. Military Rd., Portland.

Pasadena Chapter:
Scott Quintin, President; Robert E. Langdon, Jr., Vice-President; Robert L. Dennes, Sec.; Lee B. Kline, Treas. Directors: Wallace C. Bonsall, John N. Douglas, Boyd E. Georgi, and Culver Heaton. Offices: 259 S. Los Robles Ave., Pasadena.

San Diego Chapter:
Louis A. Dean, President; Donald Campbell, Vice-President; Victor L. Wulff, Jr., Secretary; Richard L. Pinnell, Treasurer. Sec. Office, S. D. Trust & Savings Bld., San Diego.

San Joaquin Chapter:
David H. Horn, President; William G. Hyberg, Vice-President; Richard P. Clark, Secretary; Bryon C. Brodrick, Treasurer. Sec. Office, 335 Anglo Bank Bldg., Fresno.

Santa Barbara Chapter:
Wallace W. Arendt, President; Ray W. Cheesman, Vice-President; Chester Carjola, Secretary; Lutah M. Riggs, Treasurer. Sec. Offices, 129 De la Guerra Studios, Santa Barbara.

Southern California Chapter:
Charles E. Fry, President; Henry L. Wright, Vice President; C. Day Woodford, Secretary; Robert Thomas, Treasurer; Directors: S. Kenneth Johnson, Kemper Nomland, Wm. B. Balch and John J. Landon. Ex. Sec. Rita E. Miller, Chapter Headquarters, 3723 Wilshire Blvd., Los Angeles 5.

Utah Chapter:
W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

Washington State Chapter:
Paul Thiry, President; John S. Detlie, 1st Vice-President; Robert H. Wohleb, 2nd Vice-President; Robert H. Dietz, Secretary; and Edwin T. Turner, Treasurer. Alice Gregor, Executive Secretary, 430 Central Building, Seattle 4.

Spokane Chapter:
B. K. Ruehl, President; Victor L. Wulff, 1st Vice-President; Philip Keene, 2nd Vice-President; Laurence G. Evanoff, Secretary, and Carroll Martell, Treasurer. Office 515 American Legion Bldg., Spokane, Washington.

Tacoma Society:
E. N. Dugan, President; P. G. Ball, Vice-President; Lyle Swedberg, Secretary-Treasurer.

Hawaii Chapter:
Kenji Onodera, President, 3518 McCorriston St., Honolulu, T. H.; George J. Wimberly, Secretary, 315 Royal Hawaiian Ave., Honolulu, T. H.

CALIFORNIA COUNCIL OF ARCHITECTS
William Koblik, President, 2203 - 13th St., Sacramento; Donald Beach Kirby, Secretary, 461 Market St., San Francisco; Frederick A. Chase, Exec. Secty., 3723-A Wilshire Blvd., Room 206, Los Angeles.

ALLIED ARCHITECTURAL ORGANIZATIONS

San Francisco Architectural Club:
Charles W. Dennis, President, Joseph Scoma, Vice-President; Russell Pennell, Treas.; Camiel Van De Weghe, Sec. Offices 507 Howard Street.

Producers' Council—Southern California Chapter:
Harold F. Smith, President, Gladding, McBean & Co.; Bert Taylor, Vice-Pres., Pittsburgh Plate Glass Co.; Richard Seaman, Sec., W. P. Fuller Co.; Clay Snider, Treas., Minneapolis-Honeywell.

Producers' Council—Northern California Chapter (See Special Page)

Allied Arts and Affiliated Professions, has urged members to "give appropriate consideration to the cultural embellishment of our civic buildings" when working on projects for the city.

WASHINGTON STATE CHAPTER

Paul Thiry was re-elected president of the Washington State Chapter, AIA, at their annual meeting in Seattle. Other officers elected were John S. Detlie, re-elected 1st vice-president; Robert H. Wohleb, Olympia, 2nd vice-president; Robert H. Dietz, re-elected Secretary, and Edwin T. Turner, Treasurer.

Elected to serve on the Executive Board were B. Marcus Priteca, Francis E. Huggard, and John M. Morse. Also serving on this Board are Paul H. Kirk and John Paul Jones.

The Chapter has already started activities in connection with the national convention of The American Institute of Architects, which will be held in Seattle in 1953, and the following have been named as Chapter delegates: Charles T. Pearson, Leonard W. Bindon, Robert H. Dietz, James J. Chiarelli, John T. Jacobsen, Lawrence G. Waldron, Jr., Lister Holmes, Stephen R. Richardson, Marvin R. Patterson, and Robert L. Durham. These delegates will also serve as the Institute Affairs Committee and with Carl F. Gould, A. M. Young, Victor N. J. Jones, George W. Stoddard, Wendell Lovett, Edward J. Baar and Floyd A. Naramore will serve as delegates to the Northwest Regional Council.

CALIFORNIA COUNCIL OF ARCHITECTS CONVENTION

In preparation of the annual convention of the California Council of Architects to be held at Yosemite in October, Frank Hope, AIA, Architect of San Diego, has been appointed assistant manager. He will also serve in the same capacity for the 1953 convention scheduled for Coronado.

SAN DIEGO CHAPTER

The regular June meeting was devoted to the consideration of Aesthetics and was a friendly round table discussion of architecture and its allied

(See page 31)

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Structural Engineers Association of California
Donald F. Shugart, President; Walter A. Buehler, Vice-President; Lewis K. Osborn, Sec.-Treas.; Office c/o Kistner, Curtis & Wright, Room 203 Architects Bldg., Los Angeles. Directors Arthur W. Anderson, John E. Rinne, Henry J. Degenkolb, Lewis K. Osborn, Ernest C. Hillman, Jr., R. W. Binder, Donald F. Shugart, Walter A. Buehler, and G. E. Goodall.

Structural Engineers Association of Northern California
John J. Gould, President; G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Ass't. Sec.; Wm. K. Cloud, Ass't. Treas.; Directors Robert P. Dalton, John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick. Sec. Office, 417 Market St., San Francisco.

Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretory's Office, 604 Mission St., San Francisco.

NORTHWEST ENGINEERS CENTENNIAL AT PORTLAND

Professional engineers of Oregon, Washington and Idaho will meet in Portland on August 9th for a 1-day Northwest Engineers Centennial to commemorate a century of engineering progress in the "far corner" of the nation.

"We will review 100 years of engineering progress in the Northwest," W. C. Williams, President of the Professional Engineers of Oregon, reports, "and then we will take a long look ahead into the next century."

Co-hosts with Williams are E. L. Mathes, Boise, President of the Society of Professional Engineers of Idaho, and H. Jack Reeves, Spokane, President of the Society of Professional Engineers of the State of Washington.

R. Evan Kennedy, Portland engineer, is General Chairman of the event.

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WASHINGTON SOCIETY OF PROFESSIONAL ENGINEERS

Robert C. Dietrich of Seattle was recently elected president of the Seattle Chapter of the Washington Society of Professional Engineers for the ensuing year.

Elected to serve with Detrich were: Carl M. Berry, 1st Vice-president; Robert H. Lochow, 2nd Vice-president; George W. Graetz, Secretary-Treasurer; O. S. Willumsen, Assistant Secretary; and L. R. Durkee, State Trustee.

THE FEMINEERS

Mrs. A. C. Horner of San Francisco, President of the Femineers organization comprising wives of civil and or structural engineers in the Bay Area belonging to the American Society of Civil Engineers or the Structural Engineers Association of Northern California, heads one of the most unique groups allied to professional circles in this region.

MRS. A. C. HORNER
President

The organization was started two years ago to encourage engineering wives to become better acquainted and by social gatherings to promote good fellowship among engineers. A secondary purpose of the group is to assist at conventions of the engineering societies.

Membership now numbers more than 100 and regular meetings are held with brief business sessions, usually followed by a program which may

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Directors Harold P. King, Ben Benioff, Donald F. Shugart, Wm. T. Wright, Wm. T. Wheeler, Henry M. Layne and Joseph Sheffet. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices. L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

be devoted to the subject of "charm," "hats," the playing of cards or the more serious matter of civilian defense. Social events are scheduled regularly, outstanding is the annual Christmas luncheon, and activities of the group have expanded recently into the possibilities of sponsoring engineering scholarships.

The July meeting of the group heard Mrs. Warren Gibbs, teacher of creative writing, discuss the subject of "writing." Mrs. August Waegemann served as chairman of reservations; Mrs. John Mitchell was the hostess of the day; and Mrs. Frank E. McClure was in charge of table decorations.

SOCIETY OF AMERICAN MILITARY ENGINEERS

Ray D. Kelly, Superintendent of Technical Development for United Air Lines, spoke before the July meeting of the Society of American Military Engineers—San Francisco Post, on the subject of Jet Transport Aircraft.

In addition to covering the potentialities and problems associated with jet transport aircraft, Kelly discussed the relationship between military and commercial jet developments.

The Technical Development Division of United Air Lines, formerly located in Denver, has been transferred to the company's engineering and maintenance base at the San Francisco Municipal Airport.

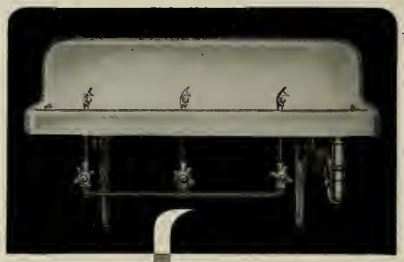
The meeting was held in the Presidio Officers Club.

STRUCTURAL ENGINEERS ASSOCIATION NORTHERN CALIFORNIA

The Old Hearst Ranch in Alameda county was the scene of the Annual Picnic and the July meeting.

Members resorted to games of softball, golf, horseshoes, tennis, billiards, bridge, and swimming, with score results in figures comparable to the national debt. Prizes were awarded with reckless abandon, and everyone in attendance agreed that those who were not in attendance should have been. However, as President John J. Gould mused "there'll be next year, so start planning for it now."

The August meeting, in charge of Jim Stratta as Chairman, will be devoted to a consideration of Foundation Problems in connection with a major srtucture being built in the Bay Region, with discussions led by G. A. Sedgwick, W. W. Moore, and C. R. Graff.



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Edited by Phil Brown, OTIS ELEVATOR COMPANY.

The annual Golf Tournament and Sports Dinner held on Thursday, June 19, at the Olympic Club, Lakeside, was a tremendous success. A great deal of the credit for the success of this event goes to Mr Clyde Cornell of the Natural Gas Equipment Company, who headed up the committee. We also extend our thanks to Mr. Phil Mittell of the Otis Elevator Company for his expert handling of the awards.

Finishing in first place were Mr. Alec Wilson, Architect, and Bob Dumesnil, the Brookman Company, with 82 on the par 72 course.

Second and third places for the low gross went to Jim Johnson (90) and Fred Confer (92) for the architects, and to George Smith (84) and Bob Paige (90) of the Producers.

Ray Brown claims he was off his game but succeeded in sharing first place honors with M. C. Hofheinz for the low score on the blind bogey. Norman Patterson won the blind bogey for the architects with a sizzling 61. Gordon Hughes was successful in nosing out your writer for the tournament's dub chump award.

After several rounds of cocktails at the 19th hole and following a very fine dinner of roast beef, we had a report from President Art Staat who reviewed the year's progress. Art thanked the various officers for their assistance during the past 18 months and he pointed out that the co-operation of the individual members of the organization is the main reason that the organization has been successful during his term and a half of office.

Art introduced our new president for the coming fiscal year, Mr. Al West, Aluminum Company of America. Al, of course, is well known to us all and we are certain that the entire membership of the Council joins us in pledging our support and assistance to Al and his task during the coming year.

In closing, Al introduced the other officers: namely Howard Noleen, Vice-President; Hillman Hudson, Secretary; and Tait Smith, Treasurer. Also announced were the committee chairmen for the coming year; namely, Membership, Mr. John Crowley; Public Relations, Phil Brown; Fellowship, Herb Kaewert; Joint Information, Rowley MacNichol; Educational, Herb Duncan; Program, Howard Noleen; and Advisory, Al Staat.

Coming Events

July 14 will be the date of our next regular meeting, at which time Bastian Morley Co., Inc., will present an informational meeting on radiant baseboard heating. This is the first of a series of five informational meetings to be held at our regular monthly gathering that will take us up to the end of the year.

We list below the remaining informational meetings with the proposed topics and in the event that any architects or engineers have a particular interest in the proposed subjects, we ask that they get in touch with either the sponsoring company or the Producers' Council to insure that they are invited to the particular meeting.

July 14—Informational Meeting, Palace Hotel, San Francisco, Bastian Morley Co., Inc., Radiant Baseboard Heating.

August 4—Informational Meeting, Palace Hotel, San Francisco, American Lumber & Treatment Co., Protective Treatment of Lumber.

September 8—Informational Meeting, Palace Hotel, San Francisco, Bell & Gossett Co.

October 6—Informational Heeting, Palace Hotel, San Francisco, Detroit Steel Products Co., Classroom Daylighting.

November 5—Informational Meeting, Palace Hotel, San Francisco, Truscon Steel Company, Steel Double-Hung Windows for the Modern Residence.

December—Annual Christmas Jinx.

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A. I. A. ACTIVITIES

(From page 27)

arts with Kathryn Neihouse, a member of the State Legislature; Donal Hord, noted sculptor; Earl Schrack, noted painter, and Harold Driscoll, noted ceramist participating in the discussions.

Reports indicate the meeting was one of the most interesting held by the Chapter.

The Architectural Exhibit, prepared by members to stimulate public interest in architecture, has been on exhibition in the San Diego Art Gallery.

FORM ARCHITECTURAL FIRM

William Mooser, AIA, architect, and John W. Gloe, architect, have formed an association to carry on a complete architectural and engineering service.

General offices have been established at 362 Clay Street in San Francisco.

NEWS & COMMENT ON ART

(From page 7)

an exhibition of Paintings by Demetrios Jameson and a special feature of Museum Collections for July.

Twenty-seven Renaissance paintings given the Museum by the Samuel H. Kress Foundation are on exhibit in the second floor Ayer wing.

The six-week summer session offers painting and ceramics for adults, and classes for children.

GUEST INSTRUCTORS AT SUMMER ART CLASSES

Jack Shadbolt, one of Canada's leading painters, and Dorr Bothwell, outstanding serigraphist of the Bay Region, will be guest instructors at the Summer Art Classes of the California School of Fine Arts in San Francisco.

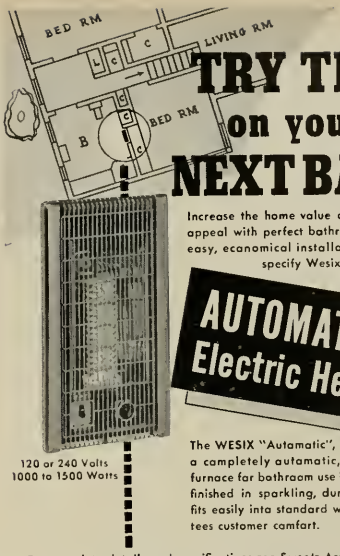
Miss Bothwell, recently returned from a two year stay in France, will teach design and serigraphy. She is head of the Department of Design of the Parsons School in New York City, and trustee of the National Serigraph Society.

A special course in Visual Communication is also being offered in which practicing architects and professional artists participate in an effort to bring about a closer cooperation between these two professions.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, has arranged an interesting July program that will include:

Hiroshi Yoshida—Color Woodcut Prints from the C. G. Tilton Collection; Karl Zerbe—Retrospec-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tive Exhibition of Paintings; Photographs by Quentin Howard; and the 4th Annual Contemporary Hand Weavers of California exhibition.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, is presenting the following program for July:

EXHIBITIONS: The Art of Henry Matisse; Landmarks in Photography, arranged by the American Federation of Arts; Quebec Painting Today; Texas Wildcat; Paintings by Wassily Kandinsky; and Printing for Commerce.

Special lectures are being held Sundays, at 3:00 o'clock and Wednesdays at 8:00 o'clock, featuring Annaliese Hoyer, Barbara Fitzwilliams, Lore Oppenheimer, and Allon Schoener.

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GARDEN BANK

(From page 11)

straight grain walnut, trimmed with Napoleon marble. The officers' area is carpeted in "desert-sand" biege. Natural-colored drapes hanging from the tall windows complete the banking room color scheme.

To the left of the front entrance are eight teller windows for checking and savings account activity. At the right is the officers' platform, adjoined by a conference room where customers may discuss their banking problems in private.

Adjoining the officers' desks on the right are three windows serving note department customers. Its layout is unique in that the department is self-contained and has its own vault for storing its records.

At the end of the room is an unusually large safe deposit vault, equipped with various size boxes and storage space for bulky valuables. Separate booths have been provided for examination of papers and other documents, also a large conference room.

On this floor is an attractive ladies' lounge and rest room trimmed in Italian marble. A biege rug complements the color scheme of the soft tinted walls. Sit-down desks are provided on the main floor for making deposits and public phone calls.

In the basement, reached by safety steps, are two large complete vaults, massively built like a bomb shelter.

Instead of installing the furnace and fan room of the ventilating system in the basement, this equipment has been placed on the mezzanine floor. Also on the mezzanine floor are the offices of the real estate loan appraisers and recreation rooms for the staff. Here are rest rooms and the cheerful-looking lunch room and lounge equipped with electric stove, refrigerator and many other culinary facilities.

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Another innovation is the sun deck on a balcony off the lunch room where staff employees may enjoy sun baths during the noon hour and other rest periods.

On each floor is a completely equipped janitors' room, so that janitors need not climb stairs to obtain their supplies.

Completion of this unique bank building marks another milestone in the program of the American Trust Company to construct all new buildings in a number of communities, so that they harmonize with the setting provided by the community they serve, and thereby "fit" into each individual location.

PHOTOGRAPHS — Illustrations in this article were taken by the following: page 8, Mercer Photographs; page 9, Philip Fein; and pages 10 and 11 by Mercer Photographs.

NAMED MANAGER OF NEW KOPPERS FONTANA PLANT

In charge of operations at the new Fontana plant of the Koppers Company when it starts production of the first tar-base enamel pipeline coatings and roofing pitches to be manufactured west of the Rocky Mountains, will be G. E. Traut.

G. E. Traut, Manager

Traut, a graduate of the University of Illinois in Chemical Engineering, comes to the West Coast from Everett, Mass., where he has been serving as superintendent of a group of Koppers Tar Products plants.

The new plant is adjacent to the Kaiser Steel Company plant at Fontana, California, and when construction is completed about the first of the year will employ about seventy-five persons.

NAHB EXPANDS WASHINGTON STAFF FOR BETTER SERVICE

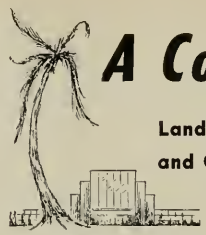
As a means of increasing service to membership, a number of additions have been made to the Washington, D. C. staff of the National Association of Home Builders, according to Frank W. Cortright, executive vice-president.

Jerry Madigan, formerly Executive Director of the Home Builders' Association of Greater Cleveland, has been named NAHB's Field Service Director.

Joseph B. McGrath, former Justice Department trial attorney, has been appointed Assistant Legislative Director.

Everett E. Revercomb, formerly with the National Association of Radio and Television Broadcasters, has been named Assistant Treasurer.

(See page 35)



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ARCHITECT SELECTED FOR BRANCH BANK

Harry J. Devine, Sacramento architect, has been selected by the American Trust Company of San Francisco, to design a new branch bank building to be built in Sacramento.

The new building will cost approximately $150,000.

NO LOTS FOR SALE HERE

A subdivision with no lots for sale is the unique distinction of a co-operative project by 53 members of the University of Southern California in Baldwin Hills.

Containing 17-acres, the subdivision has been two years in development and the initial construction of 16-homes will be completed this summer.

Southern California faculty and several other educators compose the 53 participants which is headed by Dr. Robert F. Craig.

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NEW HOSPITAL AT MODESTO

G. H. Milburn, architect of Modesto, recently announced construction of a 69-bed hospital building for the Modesto City Hospital, which will consist of a 2-story reinforced concrete building, with basement.

Cost of the project is $275,000.

HIGH SCHOOL STUDENT ARCHITECTURAL WINNER

Wayne Lieu, senior at John Marshall High School, won first place in the recent annual architectural contest sponsored by the East Los Angeles Junior College.

The contest was open to seniors in high schools in Los Angeles county, and was a problem in designing a recreational pool house for a small family including dressing rooms, showers, cooking facilities and lounge area.

Judges of the competition included Marion Varner, Pasadena architect; Dr. Rosco C. Ingalls, college director, and Ray Contreas, member of the college Architectural Club.

TESTIMONIAL DINNER CONSTRUCTION FIRM

More than 100 representatives of every phase of the residential industry in Southern California, attended a testimonial dinner recently honoring heads of the Aldon Construction Company, real estate developers.

Tribute was paid to Don Metz, Ira H. Oberndorfer, and Willard Woodrow, heads of the company, for their part in converting large undeveloped sections of metropolitan Los Angeles into home communities.

The firm has built more than $70,000,000 worth of homes and has a planned program of $165,000,000 more for its Lakewood Plaza and San Fernando Valley development.

KING CITY HIGH SCHOOL ADDITION

The King City Joint High School District has let a contract for the construction of a $400,000 addition to the King City High School to contain a gymnasium, and science and commercial units.

The addition is to be one story construction of reinforced concrete, concrete block and frame.

Frank Wynkoop of Carmel is the architect.

STANFORD UNIVERSITY CONSIDERS SHOPPING CENTER

Development of an integrated shopping center on a 60-acre section of land, with 1500 feet fronting on El Camino Real, is being considered by Stanford University, according to a recent announcement by Wallace Sterling, president.

Preliminary plans are being made by Welton Becket, architect of Los Angeles, and Coldwell Banker & Co., San Francisco realty firm.

The program is a part of a project by University Trustees to utilize lands owned by the University.

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COPPER PLANT FOUNDATIONS

J. A. McNeil Company of Los Angeles has been awarded a $2,000,000 contract for construction of foundations for a new copper plant to be constructed at Yerington, Nevada, by the Anaconda Copper Company of Butte, Montana.

The foundations are to be of reinforced concrete.

SAN FRANCISCO HOUSING PROJECT

William G. Merchant, Architect, has recommended to the P.H.A. acceptance of a bid of $1,560,287 for the construction of 208-units in the Bernal Housing Project, San Francisco.

Construction would include 1-eight story, reinforced concrete building, and 12-three story frame and stucco buildings.

The project is one of several under consideration by the Housing Authority of the City and County of San Francisco.

NEW FACTORY FOR TRACY

The Re-Enforced Paper Company is building three new factory buildings in Tracy. They are of structural steel frame with transite exterior, composition roof and concrete floors.

Wm. Corlett, San Francisco, is the architect.

TELEVISION STUDIOS FOR LOS ANGELES

The initial unit of the Columbia Broadcasting System's new Television City at the intersection of Beverly Blvd. and Fairfax Avenue, Los Angeles, is nearing completion and will be ready for occupancy in October.

When fully developed the project will represent an investment in excess of $35,000,000 and will feature a 13-story administration building of 600,000 sq. ft. The site contains 25 acres.

Pereira & Luckman, Los Angeles, are the architects and engineers.

U.S. NAVY SCHOOL OF ENGINEERING

The first unit of the U. S. Navy Postgraduate School of Engineering at Monterey (California) will soon be under construction according to an announement by Skidmore, Owings & Merrill architects for the project.

The initial construction will include some eight buildings and will cost approximately $4,558,000.

SCHOOL BONDS APPROVED

Voters of the Livermore Joint Union High School District recently approved a special bond issue of $320,000 with funds to be used for the construction of an addition to the Livermore High School.

John C. Warnecke of San Francisco is the architect.

(From page 33)

Cortright said the staff additions mark a milestone in service to association members and will permit increased activities in the Washington field.

NEW LINE OF INSULATION BOARD ANNOUNCED BY KAISER

The Kaiser Gypsum division of Henry J. Kaiser Company recently announced the addition of a complete line of insulating board products to its other building materials.

The insulating products, manufactured in Oregon of wood fibers, includes a variety of insulating boards in many sizes, shapes and colors for interior and exterior construction of homes and commercial buildings; pre-decorated building board, plank and tile for paneling interiors, acoustical tile for sound control, insulating lath as a plaster base, sheating for exterior walls, and roof insulation.

These products will be distributed through Kaiser Gypsum's existing field organizations in the six western states of Washington, Idaho, Utah, California, Nevada, Arizona, and Alaska and Hawaii.

James Hague, with headquarters in Oakland, California, will be Sales Manager in charge of the Company's insulating products.

TREND OF ENGLISH HOMES IS UP ARCHITECT REPORTS

An Englishman's home is apt to be a walk-up apartment in the Britain of tomorrow, according to Andrew G. Henderson, president of the Royal Institute of British Architects, a recent visitor to American and the national offices of The American Institute of Architects in Washington, D. C.

British cities are growing up rather than out. Britain's constricted area won't allow the sprawling type of American suburb, with single-family houses, and the English would prefer to keep the open country open even if they have to live in flats.

The clearance and redevelopment of "the Victorian belt" encircling the central areas of most British commercial towns is the next step in rehousing, Henderson reported. The post-war years have been occupied in an emergency program, now concluded, of building temporary housing, and in the creation of so-called "new towns," satellites to larger metropolitan centers in England and Scotland. Now Britain can afford the luxury of tearing down a few obsolete buildings in the course of new housing plans.

With all building tightly controlled by the government, a major effort to make the most of what is built has made the British quality-conscious. Medals are given by the government to the cities whose housing projects are best designed. Annual

(See page 38)

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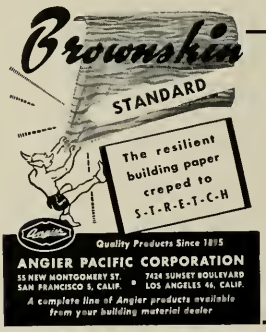
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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

THE PERSPECTOR. By De Postels. Reinhold Publishing Corpn., 330 W. 42nd St., New York. Price $10.00.

A newly developed device, closely related to the book FUNDAMENTALS OF PERSPECTIVE and developed by the author Theodore A. De Postels, the Perspector is designed to help architects, draftsmen, artists, and others make accurate perspectives easily and quickly.

Constructed of plastic the Perspector includes angular positions tables for distances of vanishing points from center line. Simple to use and will save many hours of work.

CALIFORNIA CONTRACTORS' LICENSE LAW and REFERENCE BOOK. The Contractors' State License Board, 1020 N Street, Sacramento. Price $1.00.

To meet the requirements of those in need of a Reference Book of State Laws affecting the Building Industry this book has been compiled by the Contractors' State License Board. It serves as a quick and easy source of reference for those desiring to familiarize themselves with various California statutes and laws pertaining to the contracting business.

The current issue is the eighth edition, revised. Copies may be secured from the Board or from the Printing Division, Documents Section, State of California, Sacramento.

COLOR IN BUSINESS, SCIENCE, AND INDUSTRY. By Deane B. Judd. John Wiley & Sons, Inc., 440 4th Ave., New York 16. Price $6.50.

Dr. Judd explains in this book of science and common sense, the difficult subject of the psychophysics of color in practical terms—in terms of the purchase, production, and sale of commodities whose color has an important bearing on their usefulness and price.

Such subjects as use of a spectrophotometer; use of a photoelectric colorimeter; the GE recording spectrophotometer and Beckman spectrophotometer; the fundamental tristimulus colorimetry of color television; value of the Munsell and Oswald color systems; and color tolerances, are thoroughly covered by the author.

Much of the content of the book is the result of questions asked of the author during his 20 years with the National Bureau of Standards. He now holds the position of Chief of the Colorimetry Unit.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

388. BOARD AND BATTEN DATA SHEET. Recommended methods of application and further information on board and batten construction using Redwood is detailed in a new data sheet. The sheet covers the usage of surfaced lumber as well as rough sawn material and several variations of structure are also effected. The economy of batten wall structure in cost of erection and of material is pointed out to architects and home builders and the development of Redwood as the standard material for this type of construction in the west is shown because redwood boards lay flat without the tendency to cup typical of many other species. 7/2/52.

389. FOR THE LIFE OF YOUR HOSPITAL. "For the Life of Your Hospital", a four-page brochure for architects and Hospital planners has been prepared by the Ludman Corporation. Listing various hospital installations and illustrations of medical buildings that have specified and installed Auto-Lok Aluminum windows, the folders explain why Auto-Lok Awning Windows are so frequently prescribed by hospital architects, 4 pages, illus. 6/13/52.

390. LOW ABSORPTION CONCRETE. An integral treatment for producing concrete with low absorption, of special advantage for concrete slabs on the ground not subjected to hydrostatic pressure, such as in housing projects and other low cost construction, has been announced by The Master Builders Co., manufacturers of products for the improvement of concrete and mortar. The bulletin describing this product contains tests from independent laboratories showing that it reduces absorption to less than 2½% for oven-dry specimens. Economic benefits are claimed for projects where specifications accept concrete

with this as maximum absorption, in place of 6" stone or gravel fill covered with membrane waterproofing paper and plain concrete poured on this paper. According to the manufacturer, this product, named Stearolith, resists water because of first, its water-reducing, cement-dispersing action, which lowers porosity; second, its water-repellent stearate, which reduces capillarity and absorption, and third, its reduction of total water content, which increases strength and reduces volume change and volume change cracks. 2 pages, illus. 6/52.

391. WROUGHT IRON IN SERVICE. "Proof by Performance" is the title of an illustrated booklet just released by A. M. Byers Company. The publication describes, in a non-technical manner, a number of installations in which wrought iron gave outstanding service over long periods of time. 8 pages, illus. 2/11/52.

392. LABORATORY FURNITURE FOR SECONDARY SCHOOLS. "UNAFLEX Laboratory Furniture for Secondary Schools," a catalog recently issued by John E. Sjostrom Company, describes and illustrates the new line of laboratory furniture designed and developed by the company. The catalog outlines the concept and design features of UNAFLEX, a flexible, functional laboratory furniture which was developed to meet the varying requirements of school and industrial laboratories. Included in this amply illustrated catalog are: construction details, standard furniture frames, Unaflex design features, basic laboratory units, dimensions, finished laboratory assemblies, seating arrangements, and other pertinent information on laboratory planning. A.I.A. 35-E, 15 pages, illus. 5/16/52.

393. OIL FIRED EQUIPMENT. Just off the press is a booklet on the complete line of oil fired equipment manufactured by Electrol Burner Manufacturing Company. It includes complete specifications and dimensions of the various types of oil burner models, along with their line of water heaters, warm air conditioners and boilers. 8 pages, illus. 5/32.

394. VENTILATION AND AIR CONDITIONING FILTERS. A new illustrated bulletin describing the improved Staynew Ventilation and Air Conditioning Filters has been announced by the Dollinger Corporation, manufacturers of filters for industrial needs. The bulletin contains specifications, engineering and performance data covering various types of filters recommended for the removal of dust and other foreign matter by the impingement method. B 100, eight pages illus., 3/52.

395. STAINLESS STEEL CURTAIN WALLS. A booklet which is an interim progress report on proposed methods of construction using stainless steel curtain walls for immediate consideration by designers, architects, contractors and builders. It is through the cooperation of this group, that, over a two year period, these examples have been developed. They are not the ultimate in design; and architects, engineers, etc., will find ample opportunities to exercise their prerogatives and modify these suggestions to meet the needs of contractors and builders. These designs were evolved by the Sales Development & Engineering Service Department of Allegheny Ludlum Steel Corporation with the cooperation of manufacturers, contractors and architects. A.I.A. 15-H-1, 22 pages illus., 6/6/52.

396. TRANSLUCENT STRUCTURAL PANELS. A new 12-page catalogue completely describing Resolite translucent structural panels of Fiberglas-reinforced plastic, manufactured in eight standard colors and tints has been issued by the producer. In addition to specifications, loading and light transmission values, and other physical characteristics of this versatile building material, the catalogue pictures suggested structural applications with detailed drawings for home or office partitions, patio covering, building facing, industrial skylighting, toilet and shower stalls and other practical uses. Tables list the complete range of standard widths and lengths of the sheets and corrugation sizes available. Such accesories are corrugated mouldings and filler strips, sealing mastic and flashings are also pictured and described.

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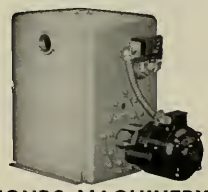

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TREND OF ENGLISH HOMES

(From page 35)

competitions ferret out the best-designed schools. The architect who can make a limited quantity of materials go the farthest gets the palm—and the most business.

Factories are a major part of Britain's post-war building effort. Industrial development corporations, publicly financed but privately managed, build new plants and use subsidies to offer them at low rents to industry. This is a major influence in securing a better distribution of employment and population, and helps end the traditional congestion of British industrial towns.

LOS ANGELES ARCHITECT RESIDENTIAL DESIGNER

Architect William Bray of Los Angeles is designing the homes being built in the new Woodruff Estates subdivision near Los Angeles.

Features of the two-bedroom-with-den or three bedroom homes are double fireplaces, double tile baths, and coordination in the interior decoration. The interiors combine redwood board and batten with cedar shingle roofs.

COMMERCIAL STANDARD FOR STOCK DOUBLE-HUNG WOOD WINDOW UNITS

A proposed Commercial Standard for Standard Stock Double-Hung Wood Window Units has been circulated by the Commodity Standards Division, Office of Industry and Commerce, to manufacturers, distributors, and other interested groups for their view and comment.

The purpose of this commercial standard is to establish standard sizes, layouts, construction requirements, grading, tolerances, and assembly of double-hung wood window units for the guidance of producers, distributors, architects, builders, and the public.

A window unit is composed of a frame, window, weather stripping, balancing device, screen and storm sash, which has been completely assembled into a properly operating unit.

USC ARCHITECTURAL STUDENTS TO DESIGN AND BUILD MODEL HOME

A $17,000 model home project by students of the University of Southern California School of Architecture has been announced by Dean Arthur B. Gallion.

A grant deed for the lot on which the home is to be built has been given by developers of Rancho Monterey, a 600-house subdivision near Monterey Park.

The home will contain 1440 sq. ft., lot is 66x107 ft., and features include plywood exterior and plastic canopies with rear yard living quarters. Large

ESTIMATOR'S GUIDE

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Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 and up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 and up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.

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Fire Brick—Per M—$111.00 to $147.00.
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8x5½x12-inches, per M	$139.50
4x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
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1 ply per 1000 ft. roll	$5.30
2 ply per 1000 ft. roll	7.80
3 ply per 1000 ft roll	9.70
Brownskin, Standard 500 ft. roll	6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll	7.00

Sheathing Papers—

Asphalt sheathing, 15-lb. roll	$2.00
30-lb. roll	2.79
Dampcourse, 216-ft. roll	2.95
Blue Plasterboard, 60-lb. roll	5.10

Felt Papers—

Deadening felt, ¾-lb., 50-ft. roll	$3.23
Deadening felt, 1-lb.	3.79
Asphalt roofing, 15-lbs.	2.00
Asphalt roofing, 30-lbs.	2.79

Roofing Papers—

Asphalt Rfg., 15 lb.	$2.09
Standard Grade, 108-ft. roll, Light	1.87
Smooth Surface, Medium	2.18
Heavy	2.56
M. S. Extra Heavy	2.96

BUILDING HARDWARE—

Sash cord com. No. 7	$2.65 per 100 ft.
Sash cord com. No. 8	3.00 per 100 ft.
Sash cord spot No. 7	3.65 per 100 ft
Sash cord spot No. 8	3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.	
1-Ton lots, per 100 lbs	$3.75
Less than 1-ton lots, per 100 lbs	$4.75
Nails, per keg, base	$11.80
8-in. spikes	11.80
Rim Knob lock sets	1.80
Butts, dull brass plated on steel, 3½x3½	.76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lepis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—

Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
Per Sack, small quantity (paper) $1.05
Carload lots, in bulk per bbl. 2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less then carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White Maduse White	1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards*	$12.00
10 to 100* yards	11.00
100 to 500 yards	10.50
Over 500 yards	10.30

* Delivered to site.

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches, each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	....	.60

Haydite Aggregates—

¾-inch to ⅜-inch, per cu. yd. $7.25
⅜-inch to ¼-inch, per cu. yd. 7.25
No. 6 to 0-inch, per cu. yd. 7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.
Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	⅜x2¼	½x2	⅝x2	¾x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standerd
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅝ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

⅝ x 2¼ First Grade	$390.00
⅝ x 2¼ 2nd Grade	365.00
⅝ x 2¼ 2nd & Btr. Grade	375.00
⅝ x 2¼ 3rd Grade	240.00
⅝ x 3¼ 3rd & Btr. Jtd. EM	380.00
⅝ x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Glass	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Glass	.64 per □ ft.
⅛ in. Obscure Glass	.40 per □ ft.
⅜ in. Obscure Glass	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glezing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness (3¾") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x8' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Delvd.
V.G.-D.F. 8 & 8tr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry—8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-5IS $170.00
½-inch, 4.0x8.0-5IS 250.00
¾-inch, per M sq. ft. 315.00
Plyscard ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square
Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—

(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—

Standerd. D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Completa door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Petant screen windows, $1.25 a sq. ft.
Ceses for kitchen pantries seven ft. high, par lineal ft., upper $9.00 to $11.00; lowar $12.00 to $13.00.
Dining room ceses, $20.00 par lineal foot. Rough and finish about $1.00 per sq. ft.
Lebor—Rough carpentry, werehouse heavy framing (avarage), $75.00 per M.
For smaller work avarage, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Threa-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whiteweshing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Wholesale Raw	Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (Soft - Paste)

Net Weight Packages	List Price per 100 lbs.	Pr. per pkgs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead —Red Lead in Oil

Price to Painters—Price Per 100 Pounds	100 lbs.	50 lbs.	25 lbs.
Products			
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Seilings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plestered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLiLme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quelity and runs.

ROOFING—

"Standard" tar and gravel, 4 ply—$11.00 per sq. for 30 sqs. or ovar.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per squera.
No. 1 Redwood Shinglas in place, 4½ in. exposura, par squara $18.25
5/2 No. 1 Cedar Shinglas, 5 in. exposura, par squere 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposura, per squera .. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per squere 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 par sq. laid.
½ to ¾ x 25" Resewn Cader Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resewn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resewn Cedar Shakes, 10" Exposure 22.00
Above prices ere for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heevier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M. $240.00
Standard, 8-in. per M. 400.00

SHEET METAL—

Windows—Metel, $2.50 e sq. ft.
Fire doors (average), including hardwere $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—

(not glazed)
Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless,
(unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft. .. 1.85

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.

¼-in. Rd. (Less than 1 ton)	$8.40
⅜-in. Rd. (Less then 1 ton)	7.30
½-in. Rd. (Less than 1 ton)	7.00
⅝-in. Rd. (Less than 1 ton)	6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton)	6.65
1-in & up (Less than 1 ton)	6.60

1 ton to 5 tons, deduct 25c.

STORE FRONTS—

Individual estimates recommended. See ESTIMATORS DIRECTORY for Architectural Veneer (3), and Mosiac Tile (35).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅜"..... $ .18 - $ .35 sq. yd.
Light shedes slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 per sq. ft
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

VENETIAN BLINDS—

75c per square foot end up. Installation extre.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings *(3) refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (1)

Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(35)

AIR CONDITIONING (2)

Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58: 4851 S. Alameda St.
San Francisco: 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (3)

Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259
THE CAMBRIDGE TILE MFG. CO. *(35)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601 Franklin Building
Pasadena 8: P. O. Box 186. East Pasadena Station
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834

BANKS - FINANCING (4)

CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery Sts., EX 2-7700

BATHROOM FIXTURES (5)

Metal
THE CAMBRIDGE TILE MFG. CO. *(35)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(35)

BRASS PRODUCTS (6)

GREENBERG'S, M. & SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK (7)

Face Brick
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
REMILLARD-DANDINI CO.
San Francisco 4: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (8)

GREENBERG'S, M. & SONS *(6)

BUILDING PAPERS & FELTS (9)

ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Blvd.
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY
San Francisco 5: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (9a)

THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (10)

PACIFIC PORTLAND CEMENT
San Francisco 4: 417 Montgomery St., GA 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

CONCRETE AGGREGATES (11)

Ready Mixed Concrete
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-562D
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond: 26th & B. St. - Yd. 2, RI 4307

DOORS (12)

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
F. M. COBB CO.
Los Angeles & San Diego
SOUTHWESTERN SASH & DOOR
Phoenix, Tuscon, Arizona
El Paso, Texas
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN DOOR CO.
(See above)

FIRE ESCAPES (13)

MICHEL & PFEFFER IRON WORKS, INC.
South Linden & Tanforan Ave.
South San Francisco: JU 4-8362

FIREPLACES (14)

Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St., PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (15)

Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(35)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
San Francisco: 470 Alabama St. MA 1-7766
Los Angeles: 923 E. 3rd, TR 8282
Seattle: 3440 E. Marginal Way
Diversified (Magnesite, Asphalt Tile, Composition, Etc.)
LE ROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LE ROY OLSON CO.

GLASS (16)

W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Ore.

HEATING (17)

S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6DDO
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 N. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
UTILITY APPLIANCE CORP. *(2)
Electric Heaters
WESIX ELECTRIC HEATER CO.
San Francisco 5: 390 First St., GA 1-2211
Los Angeles: 520 W. 7th St., MI 8096
Portland: Terminal Sales Bldg., BE 2050
Seattle: Securities Bldg., SE 5028
Designer of Heating
THOMAS B. HUNTER
San Francisco 4: 41 Sutter St., GA 1-1164

INSULATION AND WALL BOARD (18)

LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY *(9)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Stockton: 733 S. Van Buren, ST 4-9421
Sacramento 1331 - T St., HU 1-0125
Fresno: 434 - P St., FR 2-1600

IRON—Ornamental (19)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

LANDSCAPING (20)

Landscape Contractors
HENRY C. SOTO CORP.
Los Angeles: 13,000 S. Avalon Blvd., ME 4-6617

LIGHTING FIXTURES (21)

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (22)

Shingles
LUMBER MANUFACTURING CO. *(18)

MARBLE (23)

VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (24)

FORDERER CORNICE WORKS
San Francisco: 269 Potrero Ave., HE 1-41DD
PACIFIC COAST AGGREGATES, INC. *(11)

MILLWORK (25)

LUMBER MANUFACTURING COMPANY *(18)
MULLEN MANUFACTURING COMPANY
San Francisco: 6D-8D Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles, 6820 McKinley Ave., TH 4196

PAINTING (26)

Paint
W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim
FORDERER CORNICE WORKS *(24)
PACIFIC COAST AGGREGATES, INC. *(11)

Exteriors
PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio
THE SCOTT COMPANY *(17)
HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341
CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178
SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322
SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows
DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGEGATES, INC. *(11)

Fire Doors
DETROIT STEEL PRODUCTS COMPANY

Skylights
DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767
JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building
KRAFTILE COMPANY *(33)
SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)
HERRICK IRON WORKS *(33)
SAN JOSE STEEL CO. *(33)
COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800
GLADDING, McMEAN & CO. *(3)
KRAFTILE
Niles, Calif.: NIles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

TIMBER—REINFORCING (36)

Trusses
WYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber
J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)
GLADDING, McBEAN & CO. *(3)
KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (Revised to March 1, 1951.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53					
BRICKLAYERS	3.25	3.25	3.15	2.85	3.25	3.00	3.00	3.25	2.625	2.625	2.625	2.625	2.625
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.375	2.40	1.75	1.75	1.75	1.75	1.75
CARPENTERS	2.325	2.325	2.175	2.175	2.175	2.175	2.175	2.175	2.20	2.20	2.20	2.20	2.20
CEMENT FINISHERS	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.28	2.28	2.28	2.28	2.28
ELECTRICIANS	2.75	2.60	2.60	2.75	2.50	2.50	2.625	2.60	2.50	2.50	2.50	2.50	2.50
ELEVATOR CONSTRUCTORS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.30	2.08	2.30	2.30	2.00	2.00	2.00	2.00	1.96
IRONWORKERS: ORNAMENTAL	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.255	2.255	2.255	2.255	2.255
REINF. RODMEN	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.28	2.28	2.28	2.28	2.28
STRUCTURAL	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.575	2.30	2.30	2.2375	2.30	2.30
LABORERS: BUILDING	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.65	1.65	1.65	1.55	1.65	1.65	1.55	1.65	1.65	1.65	1.65	1.65	1.65
LATHERS	3.00	3.00*	3.00*	2.75	2.875	2.75	3.00	2.8125	2.50	2.50	2.50	2.50	2.50
MARBLE SETTERS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.40	2.40	2.20	2.40	2.40
PAINTERS	2.45**	2.45	2.45	2.15	2.45	2.275	2.45	2.45	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.325	2.33	2.33	2.33	2.33	2.33
PLASTERERS	3.00	3.15*	3.15	2.75	3.00	3.00	3.125	3.00*	2.50	2.75	2.50	2.50	2.50
PLASTERERS, HODCARRIERS	2.60	2.80	2.80	2.50	2.40	2.50	2.75	2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
ROOFERS	2.50	2.50	2.50	2.50	2.375	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.3125	2.3125	2.3125	2.40	2.50	2.375	2.3125	2.375	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.625	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
TILESETTERS	2.875	2.875	2.875	2.50	2.875	2.4325	2.875	2.875	2.50	2.50	2.20	2.50	2.25

* 6 Hour Day. ** 7 Hour Day.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

ARCHITECTURAL STUDENTS

(From page 38)

sliding glass panels are included in the design which calls for three bedrooms and a bath and one-half.

Large kitchen and serving spaces are provided for. A warm air convention and radiation perimeter heating system is to be featured.

SAN GABRIEL VALLEY AREA POPULATION GAIN SHOWN

A $203,000,000 building expansion has brought more than 20,000 new families to the western San Gabriel Valley in the last five years, nearly doubling the population of some communities, according to a recent survey conducted by the Los Angeles Times.

More than 77 per cent of the area's $203,680,300 building growth, as indicated by valuations of building permits issued, has been in residential development. Some 22,000 dwelling units have been built since January 1947, and a majority of these have been single-family homes.

ADVOCATES INAUGURATION OF CONSTRUCTION PLANS

Architects, engineers and others who have had to defer non-defense construction projects because of government restrictions are being urged by the American Institute of Steel Construction to proceed with working drawings.

In a recent communication to more than 10,000 architects, engineers and designers, L. Abbett Post, executive vice president of the Institute, pointed to recent government actions easing restrictions on many kinds of non-defense construction projects.

PROJECTS AT SANTA BARBARA COLLEGE GIVEN APPROVAL

The National Production Authority has granted clearance for the construction of the first two permanent buildings on the campus of Santa Barbara College of the University of California.

Robert E. Floyd, planning engineer in charge of development of the new campus, reports working drawings for the Library and Science buildings have been completed and with some seventy converted former military buildings, will constitute the initial part of the new 408-acre campus site overlooking the Pacific Ocean.

The new library will have 42,000 sq. ft. of floor space, and the science building 39,600 sq. ft. Both structures are being funded out of a $4,000,000 allocation previously made for the new Santa Barbara College.

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BUILDERS! You can make more money; get information you need before it is published elsewhere; Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

PHOTOGRAPHY. For the best in construction photography, including exterior and interior, aerial, and progress views . . . you will find as many others have that it's the SKELTON STUDIOS, 875 O'Farrell St., San Francisco. Telephone PRospect 6-1841.

COLLECTIONS: For more than a generation —ready to serve you with competent legal staff, your interests protected at all times, efficient service, bonded agents everywhere, no collection no charge. California Material Dealers Service Co., 925 Hearst Bldg., San Francisco. Phone GArfield 1-5634. Ernest T. Langley, Mgr.

SUPT., BLDG. DEPT., wanted to head Bldg. Dept. of City of Burbank in L. A. C., Calif. Sal. $683 mo. 5 yrs. admin. exp. in chg. of bldg. proj. is req. Full info. may be secured from Pers. Bd. City Hall, Burbank, Calif.

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

NAVY HOUSING PROJECT, Monterey, Monterey County. U. S. Navy, owner. Wherry Act, 388 units, $3,500,000. ARCHITECT: Donald E. Neptune, Pasadena. Frame and stucco construction. GENERAL CONTRACTOR: Alliance Construction Co., Pasadena.

CHURCH REMODEL AND REBUILD, San Francisco. Roman Catholic Archbishop of S. F., owner. Sr. Agnes Parish, $200,000. ARCHITECT: Smith & Minton, San Francisco Class 1-A, reinforced concrete and structural steel construction. GENERAL CONTRACTOR: Robt. McCarthy Co., San Francisco.

APARTMENT BUILDING, Southgate, Los Angeles County. Tom Jones, owner. Two story, 12 unit, 40 rooms, $50,000. DRAWINGS BY: H. M. Albany, Inglewood. Frame and stucco construction. OWNER BUILDS.

LINCOLN ELEMENTARY SCHOOL, YOSEMITE ELEMENTARY SCHOOL ADDITIONS, Manteca, San Joaquin County. Manteca Elementary School District, owner. 9 classrooms and toilet rooms, $152,370. ARCHITECT: Mayo & Johnson, Stockton. Frame and stucco construction. GENERAL CONTRACTOR: S. & S. Engraving Corp., Los Angeles.

TWO APARTMENT BUILDINGS, Van Nuys, Los Angeles County. Morry Sterling, owner. 2 story, 8 family, 28 rooms, 89 x 43, $72,000. ENGINEER: W. D. Treadway, Los Angeles. Frame and stucco construction, redwood siding, apartment building, cedar shingle roofing, oak and linoleum covered floors, dual gas wall heaters, brick veneer, steel sash, plate glass. OWNER BUILDS.

OFFICE BUILDING, Los Angeles, Los Angeles County. Robert Grace, owner. 100 x 98 ft., $64,000. ARCHITECT: Wm. Shinderman, Los Angeles. Reinforced concrete block, composition roofing, metal doors, asphalt paving, composition tile, concrete slab floors, gas heating, toilets, corrugated glass partitions, stall showers, stone veneer, plate glass, steel sash, pipe columns. GENERAL CONTRACTOR: Fairway Construction Co., Inc., Los Angeles.

MEDICAL BUILDING ADDITION, San Francisco. Post-Scott Medical Bldg., owner. 3 suites offices, $42,009. ARCHITECT: Pollack & Pope, San Francisco. 1 and 2 story, frame and stucco construction. GENERAL CONTRACTOR: Elvin C. Stendell, San Francisco.

RIORDAN HIGH SCHOOL ADDITION, San Francisco. Roman Catholic Archbishop of San Francisco, owner. 16 classrooms, $325,000. ARCHITECT: Ryan & Lee, San Francisco. 2 story, reinforced concrete construction. GENERAL CONTRACTOR: Cahill Bros., San Francisco.

HEADQUARTERS BUILDING FOR PUBLIC & SAFETY DEPT., Sunnyvale, Santa Clara County. City of Sunnyvale, owner. Police station and fire house, $142,000. ARCHITECT: Ned Abrams, Sunnyvale. 1 story, concrete block and structural steel, stresscrete roof. GENERAL CONTRACTOR: Oscar H. Liebert, Sunnyvale.

ELEMENTARY SCHOOL, Chandler, Arizona. Chandler School District No. 80, owner. 3 wings, 267 x 28 ft., administration building, multi-purpose building, $487,500. ARCHITECT: Edward L. Varney, Phoenix. 1 story, masonry and structural steel construction, sheet metal, asphalt tile, asbestos shingles, metal lath, lite work, insulation, steel sash, acoustical tile, wall heaters, evaporative coolers. GENERAL CONTRACTOR: T. G. K. Co., Phoenix.

WAREHOUSE AND OFFICE BUILDING, Colorado Spring, Colorado. Maytag Rocky Mountain Company, owner. 205 x 220 ft., $200,000. ARCHITECT: Alfred T. Gilman, West Los Angeles. Steel, concrete and brick construction. GENERAL CONTRACTOR: R. E. Alderson, Colorado Springs.

BAKERY ADDITION, Montebello, Los Angeles County. Helms Bakeries, owner. 50,000 sq. ft., $450,000. ARCHITECT: Van Dyke and Barnes, Los Angeles. Structural steel and masonry construction, steel arch roof trusses, wood sheathing, composition roofing, metal decking, steel sash, concrete slab floor, tile floors and walls, air conditoning, sprinkler system. GENERAL CONTRACTOR: C. L. Peck, Los Angeles.

ADDITION TO OFFICE BUILDING, Los Angeles, Los Angeles County. Shell Oil Co., owner. Additional floor, $315,000. ARCHITECT: Welton Becket and Assoc., Los Angeles. Reinforced concrete construction, structural steel, composition roofing, concrete floors, asphalt tile, steel sash, office partitions, air conditioning. GENERAL CONTRACTOR: C. L. Peck, Los Angeles.

OFFICE BUILDING, Los Angeles, Los Angeles County. Standard Federal Savings & Loan Assoc., owner. 9 stories and basement, $2,000,000. ARCHITECT: Welton Becket & Assoc., Los Angeles. STRUCTURAL ENGINEER: Donald Douglas, Los Angeles. Steel frame construction, re-inforced concrete, aluminum and glass walls, composition roofing, asphalt tile and terrazzo floors, metal decking, air conditioning, ceramic tile trim in toilets, steel stud and plaster partitions, marble exterior, concrete vaults, elevators. GENERAL CONTRACTOR: C. L. Peck, Los Angeles.

BROADCASTING STUDIO, Phoenix, Arizona, Station KTAR owner. 134x81 ft., $399,861. ARCHITECT, Lescher & Mahoney, Phoenix. Masonry construction, composition roofing, rubber tile, heating and ventilating system, air conditioning, ceramic veneer, insulation, plate glass, sprinkler system, steel sash, steel trusses, tile work, glass doors. GENERAL CONTRACTOR, Maridian Construction Co., Phoenix.

PAROCHIAL SCHOOL, Alhambra, Los Angeles County. Roman Catholic Archibshop of Los Angeles, owner. 4 classrooms, office and library, $70,568. ARCHITECT, Armet and Davis, Los Angeles. Reinforced brick construction, composition roofing, cement slab and asphalt tile floors, aluminum sash, space heaters, tile toilet floors, metal toilet partitions. GENERAL CONTRACTOR, James I. Costello, Arcadia.

BUILDINGS FOR GENERAL MOTORS DESERT PROVING GROUND, Higley, Arizona. General Motors Corp., owner. Caretakers house, division engineers quarters, 155x33 ft., lounge, dining room, bedrooms, kitchen, toilets, operations building, 142x81 ft., offices, equipment rooms, stock room, drivers room, toilets, $200,000. ARCHITECT, Lescher & Mahoney, Phoenix. Masonry construction, structural steel, cast cement stone, insulation, asbestos shingle roofing, sheet metal, stucco, metal partitions, asphalt tile and cork flooring, ceramic tile, steel sash, air conditioning, hot water heating. GENERAL CONTRACTOR, W. S. Porter Construction Company, Mesa, Arizona.

GRAMMAR SCHOOL, Yolo, Yolo County. Cacherville Elementary School District, owner. 4 classrooms, kindergarten and toilet rooms, $99,500. ARCHITECT, Baravetto & Thomas, Sacramento. Frame and stucco construction. GENERAL CONTRACTOR, Jay Bailey Construction Co., Woodland.

SERVICE BUILDING, So. San Francisco, San Mateo County. City and County of S. F., owner. Contains boiler plant, $195,000. ARCHITECT, W. P. Day & Assoc., San Francisco. 1 story, 60x100, light steel frame, porcelain enameled steel, 3 H.P. steam boilers and boiler equipment. GENERAL CONTRACTOR, Morris Daley, Burlingame.

BROOKSIDE ELEMENTARY SCHOOL, Willits, Mendocino County. Willits Union Elementary School District, owner. 9 classrooms, administration, kindergarten, multipurpose, kitchen, and toilet rooms, $277,967. ARCHITECT, C. A. Caulkins, Jr., Santa Rosa. Frame and stucco construction. GENERAL CONTRACTOR, H. L. Peterson Construction Co., San Francisco.

ADDITIONS TO HIGH SCHOOL, Downey, Los Angeles County. Downey Union High School District, owner. Boys' locker and dressing room, science building, $282,000. ARCHITECT, Allison & Rible, Los Angeles. Frame and stucco construction, composition roofing, structural steel work, sheet metal, steel sash, tile work, plumbing, metal doors, asphalt tile. GENERAL CONTRACTOR, Wm. C. Crowell Co., Pasadena.

OAK MANOR ELEMENTARY SCHOOL, Fairfax, Marin County. Fairfax Elementary School District owner. 6 classrooms, administration, kindergarten, multi-purpose, kitchen and toilet rooms, $233,374. ARCHITECT, John Lyon Reid, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR, A. Von Rotz, San Anselmo.

MADISON ELEMENTARY SCHOOL, Long Beach, Los Angeles County. Long Beach Board of Education, owner. Two 1-story buildings, 30,000 sq. ft., 15 classrooms, 2 kindergartens, library, administrative unit, composition roofing, steel sash, cement slab, asphalt tile floors, acoustical ceilings, hot water heating system, metal toilet partitions, electrical work, structural steel work, $261,850. ARCHITECT, Thomas J. Russell, Long Beach. Frame and stucco construction. GENERAL CONTRACTOR, J. E. Burrell & Sons, Long Beach.

DEFENSE HOUSING TRAILER PROJECT, Marysville, Yuba County. Public Housing Administration, owner. $247,871. ARCHITECT, Reynolds & Chamberlin, Oakland. Site work for 250 trailers, construction community maintenance and management building and 3 laundry buildings, frame construction. GENERAL CONTRACTOR, Stolte, Inc. & Morrison & Knudsen, Oakland.

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Institutions, owner. $982,313. ARCHITECT, John W. Maloney, Seattle. GENERAL CONTRACTOR, Henry George & Sons, Spokane.

COUNTY OFFICE BUILDING, Yuba City, Sutter County. Sutter County, owner. 1 story 27,000 sq. ft., $498,887. ARCHITECT, Harry J. Devine, Sacramento. Reinforced concrete construction. GENERAL CONTRACTOR, H. W. Robertson Inc., Sacramento.

MEDICAL CENTER, El Paso, Texas. Medical Center Corp., owner. 10 buildings containing 4 suites, 1 story, $1,000,000. ARCHITECT, Pereira & Luckman, Los Angeles. Frame and stucco construction, slab floors, wood roof framing, masonry work, plaster, insulation, air conditioning. GENERAL CONTRACTOR, Robert E. McKee, Inc., El Paso.

CAST STEEL FOUNDRY BLDG. & BLDG. EQUIPMENT, Oakland, Alameda County. General Metals Corp., owner. 125,000 sq. ft., $5,000,000. ARCHITECT, McClellan, McDonald & Morkwith, Los Angeles. Structural steel frame and reinforced concrete, panel concrete walls, metal roof deck, composition roofing, steel sash, insulation concrete floor, conveyors and cranes. GENERAL CONTRACTOR, Buttress & McClellan, Inc., Los Angeles.

NEW JEDIAH SMITH ELEMENTARY SCHOOL, Sacramento, Sacramento County. Sacramento Unified School District, owner. 21 classrooms, administration, 2 kindergartens, library and toilet rooms, $536,866. ARCHITECT, Herbert E. Goodpastor, Sacramento. Frame and stucco construction. GENERAL CONTRACTOR, Lawrence Construction Co., Sacramento.

TEACHING HOSPITAL, Seattle, Washington. University of Washington, owner. 7 story, 132,000 sq. ft., research and laboratories, radiological, clinical and psychiatric quarters, $1,441,836. ARCHITECT & ENGINEER, Naramore, Bin, Brady & Johanson, Seattle. Reinforced concrete walls, structural steel, ceramic veneer, terra cotta work, heating and ventilating. GENERAL CONTRACTOR, J. C. Boespflug Construction Co., Seattle.

SCHOOL OF ENGINEERING, Monterey, Monterey County. U. S. Navy, Public Works Office, owner. 1 five story bldg., 2 two story bldgs., 1 one story bldg., $4,558,000. ARCHITECT, Skidmore, Owings & Merrill, San Francisco. Concrete and masonry construction, miscellaneous steel and studding, lathing and plastering, roofing, sheet metal work, ceramic tile, marble work, acoustical tile, elevator and dumbwaiters. GENERAL CONTRACTOR, Hass & Haynie, San Francisco.

NEW WASHINGTON ELEMENTARY SCHOOL, Oakland, Alameda County. Oakland Board of Education, owner. 15 classrooms, administration, auditorium, cafeteria and toilet rooms, $634,000. ARCHITECT: Wm. E. Schirmer, Oakland. 2 story, part basement, 42,000 sq. ft., reinforced concrete construction, N. P. A. Granted. GENERAL CONTRACTOR: John E. Branagh and Son.

REINFORCED CONCRETE WHARF, Crockett, Contra Costa County, California & Hawaiian Sugar refining corp., owner. $623,500. ENGINEER: Earl & Wright, San Francisco. Reinforced concrete construction. GENERAL CONTRACTOR: Duncanson & Harrollson Co., Richmond.

GYMNASIUM BUILDING, Fresno, Fresno County. Yosemite Junior High School, owner. $317,700. ARCHITECT: Horn & Mortland, Fresno. GENERAL CONTRACTOR: Clarence Ward Construction Co., Fresno.

SHOPPING CENTER, Azusa, Los Angeles County. Azusa Properties, Inc., owner. 20 stories and shopping facilities, 18 acres, $1,000,000. ARCHITECT: Ronald A. White, Los Angeles. Reinforced concrete construction, 135 x 186 ft., steel rool trusses, composition roofing, terrazzo, concrete and colored concrete floors, dry wall interiors, glass doors, Kalamein doors, rolling steel doors. GENERAL CONTRACTOR: Zimmer Construction, Los Angeles.

DOUGLAS ELEMENTARY SCHOOL, San Francisco. City & County of San Francisco, owner. 9 classrooms, administration, library, kindergarten, multi-purpose, kitchen, toilet rooms, $483,456. ARCHITECT: A.A.A. MacKenzie Cantin & Edwin B. Page, San Francisco. 2 story, reinforced concrete construction. GENERAL CONTRACTOR: Martinelli Construction Co., San Francisco.

PUBLIC LIBRARY, San Diego, San Diego County. San Diego City Council, owner. 3 story and 2 stack levels, basements, 200 x 150 ft., $1,693,500. ARCHITECT: Johnson, Hatch & Wulff, San Diego. Reinforced concrete construction, built up composition roof, steel roof trusses, steel sash, sheet metal work, reinforcing steel, rubber tile on slab floors, forced air heating, air conditioning, luminous ceiling lights, marble work, waterproofing, vault doors, tile work, terrazzo, plate glass, metal lath and plaster, bronze extruded sections, cabinet work, stone work, elevators, fire doors, glass doors, insulation. GENERAL CONTRACTOR: F. E. Young Construction Co., San Diego.

ADMINISTRATION BUILDING, Torrance, Los Angeles County. General Petroleum Corp., owner. 2 story & part basement, lobby room, office, coffee room, 32,500 sq. ft., $635,000. ARCHITECT & ENGINEER: Albert C. Martin & Assocs., Los Angeles. Reinforced brick construction, wood roof, white crushed rock roofing, steel sash, concrete floors, stud and plaster partitions, metal toilet partitions, ceramic tole wainscots and toilet floors, rubber tile floors, slab birch doors. GENERAL CONTRACTOR: P. . Walker Co., Los Angeles.

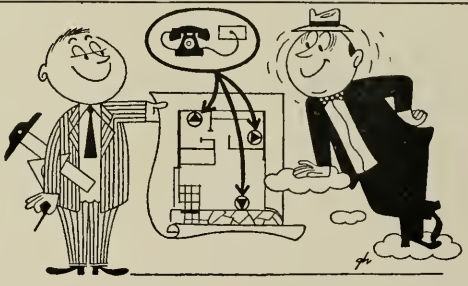
HIGH SCHOOL ADDITION, Madera, Madera County. Madera Union High School District, owner. 6 classrooms, 2 sewing rooms, 2 cooking rooms and laboratory, $319,125. ARCHITECT: Schwartz & Hyberg, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: R. W. Brown Construction Co., Madera.

FIRE HOUSE No. 1. Fresno, Fresno County. City of Fresno, owner. $106,798. ARCHITECT: Benj. F. Lippold, Fresno. GENERAL CONTRACTOR: Wm. E. Hopkins & Son, Fresno.

WHEELER RIDGE ELEMENTARY SCHOOL, Arvin, Kern County. Arvin Union Elementary School District, owner. 13 classrooms, administration, 2 kindergartens, cafeteria, toilet rooms, $339,000. ARCHITECT: Wright, Metcalf & Parsons, Bakersfield. Frame & stucco construction, concrete and asphalt tile floors, steel roof trusses, radiant heating, water well and water systems. GENERAL CONTRACTOR: Fred S. Macomber, Los Angeles.

NEW HERBERT HOOVER ELEMENTARY SCHOOL. Stockton, San Joaquin County. Stockton Board of Education, owner. 16 classrooms, administration, multi-purpose kindergarten, kitchen and toilet rooms, $332,208. ARCHITECT: Victor Galbraith, Stockton. Frame and stucco construction, concrete floor, asphalt tile floors. GENERAL CONTRACTOR: Floyd Borchardt, Stockton.

APARTMENT BUILDING, Oakland, Alameda County. A. Steffens, owner. 52 rooms, $118,150. ARCHITECT: Leonard H. Ford, Walnut Creek. 2 story, frame and stucco construction. GENERAL CONTRACTOR: Metropolitan builders, Oakland.



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IN THE NEWS

PULP PLANT FOR ALASKA

The Kitchikan Pulp Company of Ketchikan, Alaska, has started construction of a new pulp plant at Ketchikan which will cost $45,000,000 when completed and equipped for manufacturing.

The project will include reinforced concrete buildings, dams, water line, and wharf.

ELEMENTARY SCHOOL BONDS APPROVED

Bonds for construction of an addition to the elementary school at Banta, California, were recently approved by voters of the Banta Elementary School District.

Some $149,000 will be spent in construction of 4 classrooms, kindergarten and toilets.

GROUP OF NEW RESIDENCES

Lacey & White, Inc. of San Francisco, are constructing 175 new homes in the Lake Chabot Highlands, Alameda County, at an estimated cost of $10,000 each.

Paul R. Williams, Los Angeles, is the architect. Construction will be of frame and stucco, each house to contain 1000 to 1200 sq. ft.

NEW SCHOOLS FOR MANHATTAN BEACH

The architectural firm of Daniel, Mann, Johnson & Mendenhall of Los Angeles, has been commissioned by the Manhattan Beach School District to draft plans and specifications for the construction of a new junior high school and an elementary school building.

Estimated cost of the project is $467,000.

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TERMINAL STRUCTURE SOUTHERN CALIFORNIA

Allison and Rible, architects, are completing plans for the construction of a new $500,000 terminal building in Los Angeles for Transcon Lines, motor freight carriers.

The building will house terminal offices, dock areas, maintenance shops and parking area for 220 vehicles.

DOCTORS OFFICE BUILDING

Architect J. K. Ballantine of Berkeley has been retained by Dr. H. E. Cafferatta and Associates of Reno, Nevada, to design a new doctors office building.

Of one story, and basement, brick and frame construction the project will cost $101,300.

COLLEGE OF PACIFIC BUILDS NEW LIBRARY

The College of the Pacific, Stockton, California, will soon start construction on a new two-story reinforced concrete library building on the college campus at Stockton, to cost $250,000.

The building will have a brick veneer exterior. Architect Clarence W. W. Mayhew of San Francisco is the architect.

NEW FIRE STATION

Everett E. Parks and Gates W. Burrows, associate architects, are architects on a new two-story central fire station being built by the City of Santa Ana at a cost of $300,000.

The building will also provide for the city's expanded fire alarm system, and will serve as downtown fire headquarters.

NEW FACTORY BUILDING

The Ferry Morse Seed Company building at 500 Paul Avenue, San Francisco, has been purchased by the Planters Nut and Chocolate Company and will be converted into a new manufacturing plant for Planters products, at an estimated cost of $1,000,000.

H. J. Brunnier, Structural Engineer of San Francisco, is in charge of the 5-story, plus basement, remodeling project.

GOLDEN STATE TO REMODEL CREAMERY

The Golden State Company, dairy product distributors, is constructing an addition to their plant at Gridley, California.

Anshen & Allen, San Francisco, are the architects.

HIGH SCHOOL BONDS VOTED AT JACKSON

Voters of the Jackson Union High School District, Jackson, California, recently approved a bond issue of $189,000 for construction of an addition to the Jackson High School.

Koblick & Fisher, Sacramento, are the architects.

LICK OBSERVATORY GETS NEW TELESCOPE

The Lick Observatory, located on top of Mt. Hamilton in Santa Clara County near San Jose, will soon have a new 120 inch telescope, according to an announcement by the Board of Regents of the University of California.

The Judson-Pacific-Murphy Corp., Emeryville, is installing the structural steel for the telescope.

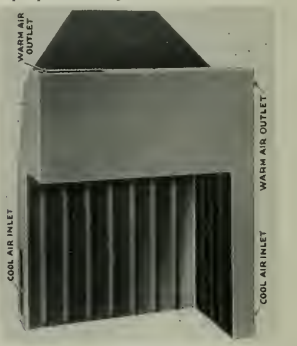
HALL OF RECORDS NEW ADDITION

The Board of Supervisors of Contra Costa County recently approved $396,214 for construction of an addition to the County Court House in Martinez to be used for a Hall of Records.

E. Geoffrey Bangs, Architect, San Francisco, is designing the addition which will be another one-story to the present three-story building.

NEW HEAT CIRCULATING FIREPLACE UNIT

Two new modern and correctly designed heat circulating fireplace units have been announced by the Superior Fireplace Company of Los Angeles.



One is the HEATFORM Model M, and the other is the HEATFORM Model S, which is of Swedish design, with front and one end open to provide greater view of fire. The design of the throat and downdraft shelf, plus properly located damper, prevents downdraft air currents entering the throat; thus creating smoke-free operation, and capturing the heat before it is lost.

Specially fabricated, easily installed—complete data in "Heatform Fireplaces" literature from manufacturer.

NEW MACY'S STORE FOR SAN MATEO

Working drawings have been started by Welton Becket, architect of Los Angeles, for the construction of a $4,000,000 Macy's Department Store building in the Hillsdale Shopping Center of San Mateo.

The building will contain 2-stories and basement and will be of reinforced concrete and brick.

NEW RESIDENTIAL SUBDIVISION OPEN

The Contractors Investment Co., Inc., of San Fernando Valley have opened their new home development project in Holly Glen.

The first unit consisting of 58-three bedroom, or two-bedroom and den dwellings, has been designed by architect Paul Duncan.

The homes are priced at $12,450 to $14,950.

ARCHITECT SELECTED

Architect John C. Warnecke of San Francisco has been commissioned by the Richmond Union High School District to draft

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plans and specifications for construction of a new junior and senior high school at El Sobrante, Contra Costa County.

The new buildings will comprise 28-classrooms, administrations, science, home making, art, commercial, music, crafts, library, multi-purpose, kitchen, three shops and toilets.

Of frame and stucco construction the project will cost $1,600,000.

FARM STYLE HOME FOR LOS ANGELES EXPOSITION

The Town and Country, a 1565 sq. ft. model home designed in California contemporary farm style by Paul J. Duncan, A.I.A., architect of Los Angeles, has been selected as the "model home" to be built and exhibited as a part of the 1952 Home Show at Hollywood Park.

Less garage and porches the 1565 sq. ft. figures includes spacious living room, dining area, kitchen, two baths, two bedrooms, den and service area. It is in the $20,000 price range.

FACTORY SITE PURCHASED

The Aluminum Body Corp of Vernon, California, manufacturer of aluminum truck and trailer bodies, has purchased a three-acre site in Montebello where it plans to build a new $150,000 factory.

The plant will include a 25,000 sq. ft. factory; a 1500 sq. ft. office building, and a 1500 sq. ft. shed.

SCHOOL BONDS APPROVED

Voters of the Mountain View Elementary School District, Santa Clara County, California, recently approved a special School Bond Election authorizing $295,000 for the construction of an addition to the Westlake School.

Improvements will include four class rooms, multi-purpose rooms and other improvements.

CALIFORNA CENTER FOR CIVILIAN DEFENSE

The State of California, thru the Division of Architecture, Department of Public Works, is building a new 1-story building in Sacramento to be used as the state headquarters for Civilian Defense.

The new office building will contain 20,000 sq. ft. and will be of structural steel, metal roof, and concrete.

METALLIC PAINTS SHOULD NOT BE USED

The use of non-metallic paint for the spring decorating program for radiators, baseboards, and convectors is advised by the Plumbing and Heating Industries Bureau.

Metallic paints such as aluminum bronze or gold may cut the heating effect of radiators, baseboards, or convectors as much as 20 per cent, the Bureau reports.

ARMY ENGINEERS MAPPING ALASKA

Substantial savings in time and money are being made by the Army Corps of Engineers by the use of helicopters in its current military mapping operations in Alaska.

Fifteen helicopters are used to carry surveyors and equipment over treacherous muskeg and rugged mountains which normally would offer difficult land travel.

During the 1951 season 24,000 square miles were surveyed in 81 days, setting a new record for this type of work.

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AUGUST 1952

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Tile Talk

BY HERMOSA

Someone once said, "Architects speak a language all their own." That may be, but architects also speak in many languages to many people.

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LOS ANGELES SAN FRANCISCO PORTLAND
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DONALD G. MALCOLM, assistant professor of mechanical engineering on the Berkeley campus of the University of California, has been elected a national vice president of the American Institute of Industrial Engineers for the Western Region.

* * *

ERIC JOHNSTON, business leader and chariman of the International Development Advisory Board, will address the Convocation of Engineering Societies at the Centennial of Engineering in Chicago on September 5th.

* * *

WM. P. NEIL CO., Ltd. and BUTTRESS & McCLELLAN, INC., two of the Southwest's leading construction firms with general offices in Los Angeles, have merged under the firm name National Panelcrete, Inc., to better serve the building and construction industry with techniques of present tilt-up construction and to license their use on a nation-wide scale.

* * *

SIGNING of the "Teague Bill," the Veterans' Readjustment Assistance Act of 1952, by President Truman extends GI home loan benefits to 870,000 Korea veterans now back in civilian life. The measure includes guaranteed home, farm and business loans, education and training and employment and self-employment allowances.

* * *

THE control of daylighting was studied and discussed at the School Planning Conference, Stanford University, early this month by F. H. Logan, engineer with the Western Asbestos Company of San Francisco. The Conference was held under the direction of James D. MacConnell, Stanford School of Education.

* * *

FIELD crews of the U. S. Bureau of Reclamation are at work in the rugged Putah Creek canyon west of Winters, California, preparing plans and specifications for Monticello Dam reclamation structure which is a part of the Solano Project. Congress recently allocated $3,000,000 to the project which will impound 1,600,000 acre-feet with an annual yield of 262,000 acre-feet.

* * *

DEFENSE workers are losing no time in occupying two and three bedroom houses in Lancaster, California, which have been priced at $8,675 with no down payment and only $51.95 per month payments. Financing is through 24-year VA 4% loans.

* * *

TO make available the latest techniques of tensioning, and developments in the design of prestressed concrete structures to contractors, inspectors and engineers, a Conference on Prestressed Concrete will be held on the Los Angeles campus of the University of California, November 14-15. The meeting is sponsored by the Department of Engineering, University of California, Berkeley and Los Angeles.

* * *

HEADQUARTERS at the Wright-Patterson Air Force Base in Dayton, Ohio, is in need of an architect, and will pay $4205.00 per year, according to an urgent request for assistance from Robert H. Lange, Chief, Positive Recruitment Unit, Employment Section of Base Personnel and Administration. Complete information may be obtained from Lange.

* * *

SPACE SHORTAGE at Yosemite for California Council of Architects annual convention in October 9-11. If you are planning to attend this event, it is imperative that you get your reservation in without delay. The architects' annual get-together is growing so rapidly in attendance that accommodations at Yosemite National Park is becoming a problem.

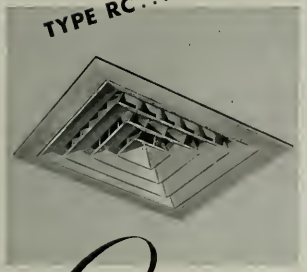
* * *

COLONEL Louis H. Foote has been installed as District Engineer of the Corps of Engineers for the Alaska District with headquarters in Anchorage, Alaska. He will have charge of the nation's six year old, 586-million dollar construction program in America's northern frontier.

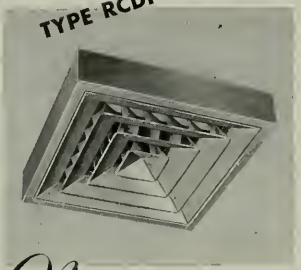
* * *

CLAY PIPE makers E. M. Davids, vice president of Gladding, McBean & Company and John Fredericks, president of the Pacific Clay Products attended a recent board of directors meeting of the National Clay Pipe Manufacturers, Inc., in St. Louis.

TYPE RC . . . For Standard Installations



TYPE RCDF . . . For Drop Frame Installations



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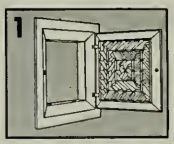
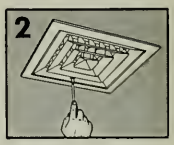


Insert diffuser "slide hinges" into frame slots



Turn mounting lock 90° with screw driver

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Book Reviews

★

The New
SUNSET FIREHOUSE
San Francissco

A good example of modern municipal building design and construction that conforms to community planning is this new Fire House by Architect J. S. Gould for the Fire Department of the City and County of San Francisco.

Situated in a small homes residential area the rather large building's appearance is in keeping with the adjacent houses.

Photo by Alex Myers.

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EDITORIAL NOTES

NATIONAL HOME BUILDING WEEK

National Home Week was originated by the National Association of Home Builders in 1948, and each year an expanding nation-wide celebration has been built around the theme of Home Ownership.

It has been an event where the entire home building industry, material distributors, lumber yards, home financing institutions, realtors, utility companies, appliance dealers, home furnishers, and allied interests have shown their wares to the public.

Model homes have been specially built for the occasion. On-site demonstrations of streamlined building techniques and services have been held. New appliances, equipment, building materials and household furnishings have highlighted displays from coast-to-coast, and people by the tens of thousands have turned out to view these demoostrations, and to learn how modern homes are built and purchased.

While sponsored on a nation-wide scale, each locality observes its own event although collectively they all accomplish the same purpose—to make the public more aware of the great advantages of home ownership in America and the desirability of well equipped, well planned new homes.

National Home Week will be observed this year from September 14 through the 21st.

* * *

The Federal government has taken more money from the taxpayers during the Truman Administration than during all other administrations combined, and one-third of all the money ever spent by the United States has been spent in the past six years by this administration.

* * *

PUBLIC HOUSING SALESMEN

Travel expenses provided for the Public Housing Administration in the Independent Offices Appropriation bill which has passed the House amount to $620,000. Another $492,000 is earmarked for travel in other units of the Housing and Home Finance Agency, including $210,000 for the Office of Administrator.

Why so much for travel? Well the Monroe, Mich., Evening News describes a hearing before its city commission back in 1950 on a public housing project in these terms:

"What was shocking and amazing in the hearing of the project before the city commission . . . was the case of one of the three federal men who attended the meeting and remained on their feet throughout the hearing to talk for the project whenever occasion offered." The man in question told the community that the project wouldn't cost it a cent, among other things. The paper went on to call him a "federal salesman."

That's what the appropriation apparently means when it authorizes the $620,000 for "expenses of travel and expenses of attendance at meetings of organizations concerned with the work of the Public Housing Administration.

* * *

DO YOU REALLY CARE?

The cold facts and figures "on the record books" show that in 1948 some 48,680,416 votes, the largest total ever, were cast in the General Election—but, that this tremendous as it may seem vote, was only 51 per cent of the eligible votes. 49 per cent of the nation's eligible voters did not cast their ballot.

In the General Election of 1880, some 78.4 per cent of eligibles voted.

So! The records tell us that during the past sixty-eight years "our" interest in the nation's General Elections has shown a continuous decrease for no apparent or good reason . . . with one exception—during that period of time women won their right to vote. Could it be . . . no, we don't think so.

Politicians talk a lot about this and that "bloc" of voters being decisive factors in any election, and that they will be of great importance in the General Election on November 4th. So do all the pollsters and you can't blame anyone for trying to dope out the trend of results of an election in advance, BUT,

YOU, for instance, know right now that you are going to vote your own sweet way when you get behind that voting booth curtain—that where you live or work hasn't got a thing to do with how you will vote. As a good citizen of the best nation in the world, you will vote for what you sincerely believe to be in the best interests of your family, your kids, and your kids' kids.

So YOU KNOW NOW that this year, as always, it will be the FAMILY vote that really decided things.

The FAMILY VOTE, Not the farm vote, not the big-city vote, not the labor vote, not any particular party vote, WILL ELECT the next president of the United States.

Right now in millions of American families, everyone from Little Sis to Grandma is pitching in to remind every eligible American TO REGISTER to make sure of the opportunity to vote.

YOU can do your part by being SURE you are registered to vote—then go to work on your friends, relatives, and neighbors to make certain they are registered and can also vote.

McLAREN LODGE
New Recreation and Park Administration Building

Architects; Donald Kirby and Thomas Mulvin

Structural Engineer: Harold Engle

Masonry Contractors: William A. Rainey & Son

PRACTICAL BEAUTY of Colorful Clay Brick . . . a "natural" for GOLDEN GATE PARK

PUBLIC reluctance to allow the building of any structure to mar the beauty of Golden Gate Park was one of the most important factors in the selection of materials for McLaren Lodge. Colorful Clay Brick adapted itself beautifully, both to the simple, modern architectural motif and to the natural park landscape. Joints are deepcut to give sharp shadow lines and the brick is laid in continuous horizontal, vertical joints.

Another demonstration of *"inside or outside—a Clay Brick wall, best finish of all."*

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AFFILIATE STRUCTURAL CLAY PRODUCTS INSTITUTE

5 NEW MONTGOMERY STREET • SAN FRANCISCO

"IDEAS CLICK WITH CLAY BRICK"

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NEWS and COMMENT ON ART

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, offers the following schedule of exhibits and events during the month of August:

EXHIBITIONS: Paintings by Wassily Kandinsky; the Texas Wildcat; Printing for Commerce; Modern French Color Lithographs; Walter Gropius, Architect and teacher; Paintings and Prints from the upper Midwest, and American Federation of Arts Exhibition; and Paintings by John Ferren and Frederick Franck.

SPECIAL EVENTS: Concerts Seventh Annual Campion Festival, August 21, 25, 26 and 28; Lectures each Sunday at 3:00 p.m., and Wednesday evenings at 8:00 p.m. All adult and childrens classes have been recessed for the summer.

17th CERAMIC NATIONAL SYRACUSE MUSEUM OF ART

Artists, designers, and architects who specialize in ceramics and enameling will have an opportunity to exhibit their work in the 17th Ceramic National which is being sponsored by the Syracuse (New York) Museum of Fine Arts, the Onondaga Pottern Company, and the Ferro Corpn., and will be exhibited this fall.

Awards totaling $2450 will be made in the fields of ceramic sculpture, pottery, enamels, and dinnerware design. A special architectural citation will be offered for the best example of the use of ceramic sculpture as an integral part of an architectural plan. Judges of the architectural award will include J. Byers Hays, F.A.I.A., Cleveland; and Ivan Mestrovic, Professor of Sculpture, Syracuse University.

Entries must be sent to the Syracuse Museum of Fine Arts, Syracuse, N. Y., by September 18.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, offers three outstanding exhibitions during August.

Scheduled to highlight the month's activities are Retrospective Exhibition Paintings by Abel G. Warshawsky; Retrospective Exhibition of Paintings by Karl Zerbe; and Old American Coverlets, an exhibition from the Collection of the Museum.

Classes in Art Enjoyment for Adults, conducted by Charles Lindstrom, are held Saturday morning at 10:30 and Wednesday afternoon at 2:00 o'clock. Classes in Art for Children are held Saturday mornings, Friday afternoons, and Thursday afternoons, depending upon age of the child.

UNIVERSITY OF CALIFORNIA FACULTY ARTISTS HONORED

Works of eight faculty members of the University of California at Los Angeles department of art have been included in a show entitled "Eight Painters, Eight Objects," which will tour the western part of the nation under the sponsorship of the Western Association of Art Museum Directors.

This is the second time that an exhibit by members of the U.C.L.A. art faculty has been selected by the association for sponsorship. The first, organized in 1950, is still on tour.

Eight still-life objects were selected and each of the following artists made two ar three paintings to show various versions of the same object: Mrs. Brown, Clinton Adams, William Bowne, William Bradshaw, Annita Delano, Erlan Eller, Gordon Nunes, and Jan Stussy.

OAKLAND TO PRESENT PACIFIC ART FESTIVAL

The Pacific Art Festival, a non-profit group headed by Guernsey Ford, has announced the group will hold Oakland's First Annual Art Show in the Oakland Exhibition Building from October 1 to 5.

The show will include outstanding examples of painting by artists of the three Pacific Coast states as well as representative exhibits of sculpture, architecture, landscape architecture, music, drama, ceramics, weaving, photography, wood carving, and other arts and crafts.

A feature designed to give variety to the show will be house and garden models, art is action, short lectures by art authorities and skits by dramatic groups.

CITY OF PARIS

The Rotunda Art Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, presents the Summer Annual Print Exhibition during August. Included in this year's exhibit is a group of Serigraphs, Lithographs, Colored Etchings, and Monotypes by well known French and Eastern and Western American artists. A special showing of Chuckwagons and Cowboys,

(See Page 45)

CALIFORNIA STATE BOARD OF ARCHITECTURAL EXAMINERS

When the California State Board of Architectural Examiners met in San Francisco recently, two new members were welcomed to the board by President Earl Heitschmidt, A.I.A., architect of Los Angeles.

The two new members, at right in above picture, are George P. Simonds, A.I.A. architect of Oakland, and Ulysses Floyd Rible, A.I.A., architect of Los Angeles. Other members of the board are Norman K. Blanchard, A.I.A., architect, San Francisco (left to right); Clarence Paderewski, A.I.A., architect of San Diego; and Earl Heitschmidt, A.I.A. of Los Angeles.

The board met in joint conference in San Francisco with the State Board of Registration for civil and Professional Engineers to study possible revisions for the Licensing Act in order to clarify overlapping sections covering architects and engineers.

NEW ARCHITECTS FOR CALIFORNIA

The California State Board of Architectural Examiners recently announced the following for certification in the practice of architecture in the state.

John C. Absmeier, Jerry P. Braveman, George B. Carey, Jack Chernoff, Aaron Cohn, Raymond H. Cooper, Victor A. Cusack, John C. Deardorf, Edward L. Farrell, Donald S. Gill, Dolf H. D. Koldehofe, Delbert E. Long, Isabel M. Miller, Avon Pitman, Vick C. Santochi, Maxwell Starkman, Toshikazu Terasawa, Zell S. Van Myers, and Clyde L. Whitlow, all of Los Angeles.

Rex W. Allen and Robert S. Oliver, Jr., Mill Valley; Cleon M. Arnold, Jr., Clarence M. Baker, Frank J. D. Beatty, Richard C. Marshall, Warren H. Radford, Willard D. Rand, Jr., and Harry J. Squeri of San Francisco; John R. Badgley, San Luis Obispo; Richard A. Bohn, Jr., San Leandro; Robert W. Campini, Oakland; Richard N. Clatworthy, and Marvin C. Johnson, Van Nuys.

John G. Clay, San Rafael; Delbert H. Cole, Lemon Grove; Glenn E. Cook, Alhambra; Robert P. Danielson, Dawson F. Dean, Jr., Lyman C. Jee, and William L. Jeffries, Berkeley; Clare H. Day, and Harvey R. Jernigan, San Bernardino; Oleg J. Devorn, Sacramento; Henry Dupertuis, Jr., Merced; Raymond L. Eggers, Grant King, and Fred E. Norris, San Diego; John F. Galbraith, Temple City; George C. Gravlee, Visalia.

Wendell M. Harbach, James A. Hewlett and Arthur L. Jacobson, Riverside; John C. Hoops, Corte Madera; Fred T. Houweling, Burlingame; David T. Johnson, Albany; Gayne L. Jones, Carmel; Willard T. Jordan, Costa Mesa; Edward B. Kress, Los Gatos; George Kuska and John H. Waterman, Salinas; Howard R. Lane, North Hollywood; Allen Y. Lew, Fresno; George de Masirevich, Santa Monica; Judson W. Pittam, and William C. Sponholz, Pacific Palisades; Richard L. Poper and Jack J. Strickland, Long Beach.

Gordon F. Powers, Seal Beach; David A. Pugh, Sausalito; Arthur A. Smith, Gardena; Waugh Smith, Redondo; William A. Steele, Jr., Santa Rosa; John A. Taras, Pacific Grove; Ward B. Whitman, Santa Barbara; George E. Wilson, Santa Paula; Peter G. Wuss, San Jose; Donal D. Engen, Culver City; Alfred T. Smith, Monrovia; Raymond C. Wjitaker, Davenport, Iowa; and Victor A. Lundy, New York City.

COLLEGE OFFERS A NEW HOME BUILDERS COURSE

Trinity University at San Antonio, Texas, will inaugurate the nation's first Bachelor of Science degree in Home Building when classes are resumed at the school this fall.

The full four year course will emphasize mathematics, business, English, and social science the first two years, with the second two years being devoted to a study of materials, construction, equipment, utilities, production techniques, design, planning, estimating and cost control, financing and merchandising, and home building organization and objectives.

ASBESTOS FACTORY FOR SANTA CLARA—Keasboy & Matison of Ambler, Pa., has started construction of a new 1-story asbestos factory building in Santa Clara, California. The building will contain 77,000 sq. ft. and will cost $1,500,000 to construct.

The 12-story Security Building in Denver, Colorado, is believed to be the tallest building ever remodeled with architectural porcelain enamel. The installation has proved the possibilities of porcelain enamel for multi-story modernization, the Porcelain Enamel Institute reports.

ENTRANCE *Photos by Ernest Walker*

NEW OFFICE - FACTORY

BIRTCHER CORPORATION

Los Angeles, California

RICHARD PLEGER
Architect

WM. J. MORAN CO.
General Contractors

PRESIDENT'S OFFICE

LIGHTING

Window wall and provisional overhead lighting provide maximum light for clerical space. Window overlooks patio which will be landscaped.

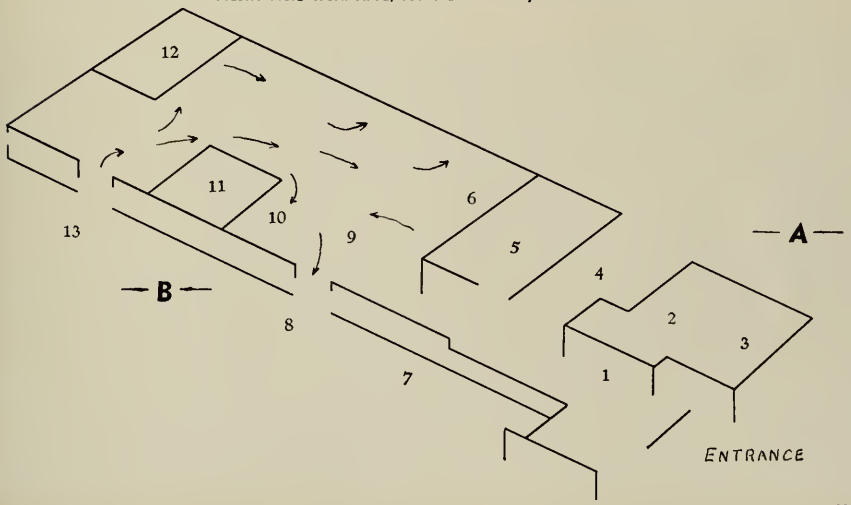
Cecil J. Birtcher, president and founder of the company, aware of the need for improving the visual pattern of industrial America and recognizing that progress is being made in this direction principally in large-scale industrial building and reconstruction where greater resources make possible unlimited use of architects and engineering specialists, utilized the services of architect, landscape engineer, building and construction engineer and interior decorator in building for his small scale industrial organization.

It was believed that through the services of building design specialists a superior building would result without substantially increasing construction costs. In addition to pre-planning for an efficient flow pattern operation, other advantages would follow.

Among these would be the building of good public relations; attracting more and better workers; increasing both the employee's and community's pride in the company; and indirectly but no less important, increasing neighborhood realty values. These factors Birtcher felt, would more than offset any additional cost of services employed. As a matter of fact, it was anticipated that by using the services of construction industry experts a substantial reduction in costs would result.

The architectural building program was for a

"A"—Administrative area. 1) President's Office, 2) Clerical, 3) Dual Purpose Room, 4) Landscaped Patio: "B"—Manufacturing area, 5) Engineering Department, 6) Final Testing, 7) Car Port, 8) Truck Pick-up Finished Products for Shipment, 9) Finished Stock, 10) Supplies, 11) Recreation Lounge and Rest Rooms, 12) Plastic Mold Work Area, 13) Truck Delivery Raw Material.



OFFICE - FACTORY BUILDING . . .

Corrugated glass partitions along interior corridor wall diffuse light and give feeling of spaciousness.

complete plant for the administration, manufacture, and shipment of equipment with a national and international distribution, of sufficient size to meet present needs as well as expandable for future requirements. Close cooperation with the architect existed in all phases of the building program. Executives, department heads, and factory superintendents joined in the planning sessions.

"This," Birtcher executives say, "is an essential factor in the well-integrated and successful all-in-one motion which resulted. The channeling of administrative effort; facilities for display and demonstration of our highly technical products; and personnel considerations were given the most thorough consideration and became determining factors in the final overall design of the building.

"The production manager and factory supervisors played an equally important part in the planning of the shop area."

For economy and flexibility the shop space was planned in an open rectangle. Only one area, other than the employees' lounge and rest rooms, is entirely closed off. This is the space where plastic molds are made and while dust particles from this operation are not great, the nature of the products manufactured demands a completely dust-free working area.

Air circulation and temperature control, contrived to provide airy and comfortable work space, has been accomplished by application of engineering principles of air travel. The administrative section is completely temperature controlled. Lighting, which is another important consideration in

AIR VIEW OF PROPERTY *Photo by Wm. A. Garnett*

close precision work, received attention to provide maximum lighting for difficult seeing tasks that involve discrimination of fine detail. Throughout the entire plant materials and construction provide easy maintenance and economy in up-keep.

Attractive restrooms and general purpose room for lunch and recreation with full kitchen facilities make for a homelike and pleasant atmosphere for the employee.

The plant is basically separated into two units, 1) the manufacturing, and 2) the administrative, with easy access of various departments to one another. Strategically placed midway is the engineering department. Manufacturing faults which show up in final testing are checked back with the factory superintendent or made subject for revision. Matters for executive attention go forward to the president's office which occupies a central position in the administrative section, for ready control and coordination of the various departments.

In the administrative section similar consideration of personnel is reflected. One entire window wall provides maximum light to the clerical space. Interior color selection and textures, and light reflection received careful study for employee psychology. Here, too, attractive restroom facilities, and lounge rooms are of the highest standard. A complete kitchen unit opens on the corridor leading to the patio. Cecil Birtcher points out that many contemporary houses provide for outdoor living as an important auxiliary to the house. So the new building has an open patio, partially enclosed by the walls of the building to provide privacy and seclusion, with attractive outdoor furniture, as an outside "living room" for the employees.

Dual purpose conference-display room, with revolving-eye ceiling lights for emphasizing displays. Room may also be used as auditorium, conferences, and showing of motion pictures.

The residential character is everywhere empha-

(See Page 40)

Back and side view of building showing truck income delivery point.

AFTER

CONVERSION TO DOCTOR'S OFFICES

BEFORE

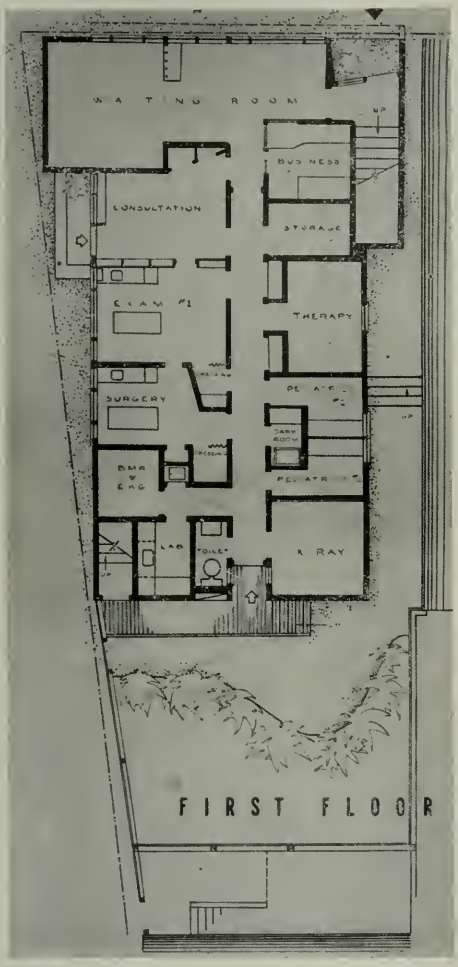
A REMODELED DOCTOR'S OFFICE BUILDING

DONALD LASTRETO, M. D.
SAN FRANCISCO, CALIFORNIA

ARCHITECTS — BOLTON WHITE, A. I. A.
JACK HERMANN, A. I. A.

CONTRACTOR:- PAYNE CONSTRUCTION CO.

INTERIOR
Showing a portion of waiting room and secretary's private office area.



THE PROBLEM:

To de-centralize medical practice, i.e. from a downtown to a suburban site—in this specific instance to the Visitacion Valley business district of San Francisco, California.

THE SOLUTION:

Dr. Donald Lastreto purchased an existing building in a good location for his purpose. This was because of the scarcity of proper vacant lots. For fullest use, the lower floor was used for Dr. Lastreto's offices. The second floor was designed to accommodate a Dentist, an Optometrist, and two Attorneys as rental tenants. The location of the building is near a growing industrial area, a hospital, and the doctor's patients.

A common entrance emphasizes the dignity of the building and provides a simple circulation. There are, in addition, a separate entrance to Dr. Lastreto's office and a rear entrance to both floors. The receptionist controls the waiting room and the movement of incoming and outgoing patients. A central corridor permits easy circulation within the working parts. The doctor's office and consultation room is in a position of first access with an adjoining examination room. The examination rooms are simple and workable with built-in cabinets and sinks. The X-ray facilities

Waiting Room — viewed from secretary's private office.

are of the best to make accurate and complete diagnosis, even though they are concentrated into a minimum space. A separate pair of cubicles was arranged to provide for pediatrics cases. The laboratory has facilities necessary for routine analysis and refrigerator built into the counter.

MATERIALS:

In general, the materials were selected for practicability and permanance. The exterior is colored stucco. The interior is colored plaster. Glazing is obscure ribbed glass. Floor covering is asphalt tile. Waiting room is finished with natural birch.

COLORS:

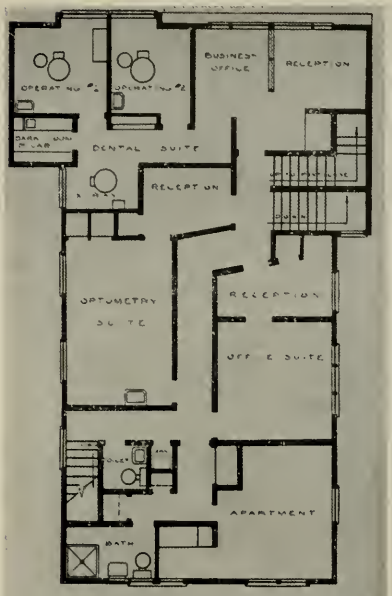
The exterior is golden ochre and turquoise with white trim. The interior is varied with the emphasis on cheerful colors.

FEATURES:

Full-height glass in dental operating rooms to the north. The economical idea of building a structure with part rented to pay off the investment, and at the same time acquiring a pleasant working environment. Storage elements. Waiting room detailing.

HEATING:

Hot water convectors have been placed under the windows.



SECOND FLOOR

LABORATORY

Has been designed to offer a maximum in general utility use, but requiring a minimum of space.

Photographs by Dean Stone & Hugo Steccati

CASCADE BUILDING

Carroll C. Calkins, Photos

GARDEN TYPE INFORMALITY FOR NEW COMMERCIAL DEVELOPMENT EUGENE, OREGON

CLARE K. HAMLIN, Architect

By ARTHUR W. PRIAULX

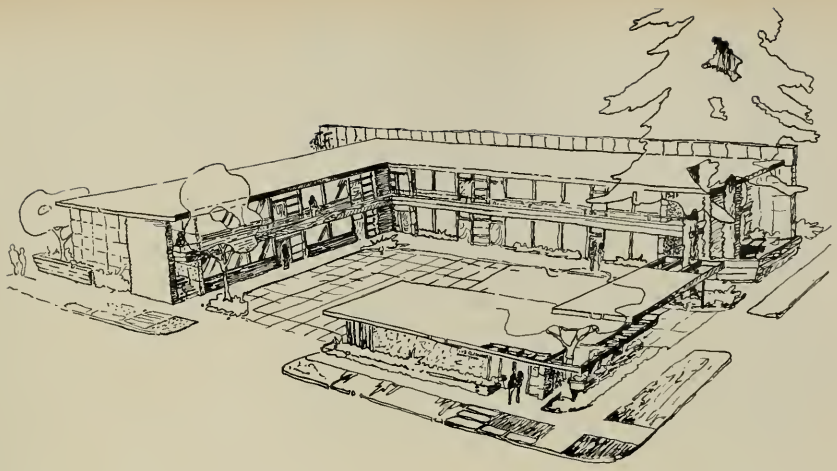
All the easy informality of a home garden has been introduced into office and commercial building design in a charming development in downtown Eugene, Oregon.

Architect Clare K. Hamlin has achieved a delightful and charming effect in a three-building open courtyard plan on an over-large quarter block.

The two-story Cascade office building with exterior corridor entrances on both ground floor and balcony levels emphasizes the unconventional theme, which is further heightened by the western red cedar walls which face the court.

Second of the three-building development is the single-story structure on the corner of the property finished also in red cedar which houses a receiving office for the Club Cleaners.

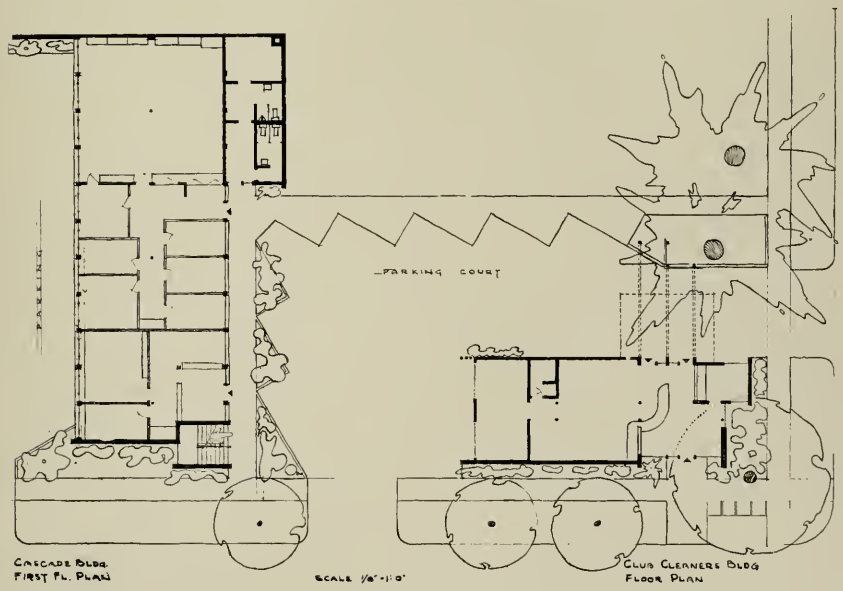
Customer parking space, which fits into the formalized garden landscaping, occupies all available space in addition to a parking strip along one



alleyway. Another projected two-story office structure to be identical with the Cascade Building is yet to be built. The two office buildings will form an ell facing the courtyard and will have continuous balcony connections.

The $75,000 Cascade Building is a combination reinforced concrete and heavy timber bent frame construction. End walls of the rectangular structure are reinforced concrete and the architect designed these walls in checkerboard pattern on a four-by-four foot scale with alternate coffered or recessed panels. They are finished with a green-colored dash.

The long walls are built of rough-sawn, tongue-and groove, red-cedar siding stained a cedar red. The structure is built up of a series of similar eight-



More of the ceiling detail can be seen here . . . an office on the ground floor.

Timbers are left exposed. Ceiling has been covered with an acousticol tile.

Close-up view of the exterior corridor on ground floor of the Cascade Building with detail of roof section which becomes balcony corridor.

foot bays and six-by-ten inch rough Douglas fir timbers form the bent frame. A solid concrete slab forms the ground floor. Second floor and roof is rough two-inch, tongue-and-groove fir planking or decking. In some rooms the decking has been covered with acoustical tile, but in many of the rooms the rough decking has been left exposed, as have the rough, exposed timbers throughout the two floors.

Plank and beams have been slightly stained to cover dirt marks and provide a uniform coloring. Interior columns on both floor levels are steel pipe, and exterior columns are all eight-by-eight inch fir.

Us of the exterior corridors had a three-fold purpose; first to gain as much useable space in the building as possible without loss to hallways and corridors, second to design the structure to get two full walls of light, and third to create a building which would best fit into the garden-court plan.

Both exterior corridors are open, but covered areas, the balcony corridar forming the roof for the

Space used in this compact office building has been studiously arronged for maximum utility of all floor area available.

An office lobby which emphasizes the home-like atmosphere which the designer has achieved throughout te building.

Part of a three room suite for attorneys on ground floor featuring Western red cedar panelling in each room.

lower level and a roof sheltering the balcony exterior entrance-way. A heavy pipe and rough-fir timber balustrade lines both corridor arcades. All offices on both floors open directly onto the exterior corridor.

Heating of the structure is done by a combination of two systems, a radiant hot-water system and an over-head-duct, forced-air system, which becomes an air-conditioning unit in summer.

Only commercial concession in the building's exterior is plate glass for all offices on the court-yard exposure. Casement-type aluminum sash windows provide daylight on walls away from the court.

The roof is a built-up type. A fibre-glass, insulation is laid first on the rough decking, with only a felt membrane against the wood, and the composition paper is laid on top the insulation.

All offices in the building have been finished in native west coast woods, with West Coast hemlock panelling predominating. All walls and partitions have been built up of vertical panelling, mostly flat grain hemlock of eight- and ten-inch widths

Another room of the cedar suite which paints up the warmth of the reddish natural finish of cedar.

Typical office finished in West Coast hemlock panelling. Roof decking becomes ceiling and timbers of frame exposed to create attractive finish and contrast with the panelling.

Combination full height partitions and partial partitions show possible variations of office arrangements to accommodate private office requirements and general office needs.

with a Boston-edge, beveled joint. All partitions reach to the beam line, and all partitions are non-bearing and can be moved to suit individual office requirements.

The hemlock panelling has been finished simply to bring out the natural golden color of the wood. A wipe paint finish with a golden tint was the first coat, followed by two or more applications of rez and varnish.

A three-room suite on the ground level, occupied by attorneys, has been finished in flat grain western red cedar panelling with several coats of clear varnish holding the original cedar color. The rooms have the beauty of a well-planned library and one of the attorneys says of his offices: "This is the first time in years of practice that I have found working can be fun. I enjoy my office as much as I do my home."

An insurance office has been laid out with five-foot-high walls of brushedwood plywood forming attractive divisions between private offices.

One reason Architect Hamlin has elected to leave the rough-fir plank ceilings exposed in most offices is that the rough wood forms an acceptable acoustical medium, especially where carpeting is used on the office floors. Fluorescent lighting is installed throughout the building.

Economy factors also entered into the selection of the exterior corridor design, Architect Hamlin indicated. The outside entrance corridor does not require the expense of heating, nor the expense of enclosure, and it permits of two walls of windows for all offices.

By eliminating the non-productive corridor space from the enclosed portion of the building, a construction cost of about $10 a square foot was realized in the Cascade Building, Hamlin stated.

Utility rooms, furnace rooms, supply and janitor

Exterior corridor from balcony level, with overhanging roof to provide ample shelter from winter storms or summer sun.

storage and rest rooms for both levels are located in a short wing and are reached from each office by the exterior corridor. The roof deck has been constructed for flooding if desired.

The single-story Club Cleaners office has been designed to fit into the general informal scheme and as a companion structure to the Cascade and projected second office building.

It, too, is a concrete and timber structure with exterior walls of western red cedar and interior finish of cedar with a small amount of hemlock. Pipe columns form the interior supports. Roof is plank, tongue-and-groove fir on bent timber frame.

An attractive roofed-in breeze-way shelter enables customers to drive in out of the weather and affords protection while loading and unloading. The breeze-way is part of the court ward.

General contractor for the Cascade Building was Elmer Bissell, of Eugene. Contractor for the Club Cleaners was Albert Vik & Son.

The immediate impression and effect on the visitor to this courtyard and garden-type layout for commercial buildings is relaxing. Two large cedar trees have been left in the courtyard and the breeze-way roof is built around one of the giant trees. The over-all effect is disarmingly informal and an altogether welcome departure from the usual straight and stiff lines which are associated in the minds of most people with commercial and office buildings. A large Oregon maple tree has also been allowed to remain on the property and Architect Hamlin worked it into the Club Cleaner plans by building the projecting roof section around the tree trunk.

In a city like Eugene, where the people love their shade trees, the garden-court office building seems a happy solution as the business area spreads out into the close-up residential district.

Viewed from the street the Cascade Building retains its informal design features and the Club Cleaner Building, at right, carries out a central theme of the garden court. Note the cedar and walnut trees on the site which have been retained.

American Institute of Architects

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Clair W. Ditchy, Secretary
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Nevada State Board of Architects:
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Northern California Chapter:
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Architect Glenn Stanton of Portland, Oregon, was re-elected President of The American Institute of Architects at the Institute's annual meeting in New York City. Named to serve with Stanton during the year were Kenneth E. Wischmeyer, St. Louis, vice-president; Norman J. Schlossman, Chicago, vice-president; Maurice J. Sullivan, Houston, treasurer; and Clair W. Ditchy, Detroit, secretary.

Four new regional directors were chosen: Philip D. Creer, Providence, New England District; C. Storrs Barrows, Rochester, New York District; Edgar Berners, Green Bay, North Central States; and W. Gordon Jamieson, Denver, Western Mountain District. Each will serve a three year term.

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SAN FRANCISCO ARCHITECTURAL CLUB

The San Francisco Architectural Club has announced plans for Fall classes in a number of subjects including Structural Engineering—a course designed to cover all phases of engineering for architects and to prepare students for the structural section of the examination of the State Board of Architectural Examiners.

Art in Architecture will be a 12-week course in art as applied to classic and modern architecture. Mural painting sculpture, and decorative problems will also be studied.

The Architectural Design Atelier, for Club members only, engages in the study of architectural design under the guidance of local architects. Design problems are under the auspices of the Beaux Arts Institute of Design and are generally of five weeks duration.

Estimating and Quantity Surveying is a course designed to increase the knowledge of everyone in the Building Industry in taking off quantities and estimating from preliminary and working drawings.

The course in specifications is a complete course in preparing specifications for residential and commercial structures, and Sketching is a course to aid students in developing a technique in render-

Oregon Chapter:
Clarence H. Wick, President, 90 Spaulding Bldg., Portland; Lowell F. Anderson, Secretary, 11541 S. W. Military Rd., Portland.

Pasadena Chapter:
Scott Quintin, President; Robert E. Langdon, Jr., Vice-President; Robert L. Deines, Sec.; Lee B. Kline, Treas. Directors: Wallace C. Bonsall, John N. Douglas, Boyd E. Georgi, and Culver Heaton. Offices: 259 S. Los Robles Ave., Pasadena.

San Diego Chapter:
Louis A. Dean, President; Donald Campbell, Vice-President; Victor L. Wulff, Jr., Secretary; Richard L. Pinnell, Treasurer. Sec. Office, S. D. Trust & Savings Bld., San Diego.

San Joaquin Chapter:
David H. Horn, President; William G. Hyberg, Vice-President; Richard P. Clark, Secretary; Bryon C. Brodrick, Treasurer. Sec. Office, 335 Anglo Bank Bldg., Fresno.

Santa Barbara Chapter:
Wallace W. Arndt, President; Roy W. Cheesman, Vice-President; Chester Carjola, Secretary; Lutah M. Riggs, Treasurer. Sec. Offices, 129 De la Guerra Studios, Santa Barbara.

Southern California Chapter:
Charles E. Fry, President; Henry L. Wright, Vice President; C. Day Woodford, Secretary; Robert Thomas, Treasurer; Directors: S. Kenneth Johnson, Kemper Nomland, Wm. B. Balch and John J. Landon. Ex. Sec. Rita E. Miller, Chapter Headquarters, 3723 Wilshire Blvd., Los Angeles 5.

Utah Chapter:
W. J. Monroe, Jr., President, 433 Atlas Bldg., Salt Lake City; M. E. Harris, Jr., Secretary, 703 Newhouse Bldg., Salt Lake City.

Washington State Chapter:
Paul Thiry, President; John S. Detlie, 1st Vice-President; Robert H. Wohleb, 2nd Vice-President; Robert H. Dietz, Secretary; and Edwin T. Turner, Treasurer. Alice Gregor, Executive Secretary, 430 Central Building, Seattle 4.

Spokane Chapter:
B. K. Ruehl, President; Victor L. Wulff, 1st Vice-President; Philip Keene, 2nd Vice-President; Laurence G. Evanoff, Secretary, and Carroll Martell, Treasurer. Office 515 American Legion Bldg., Spokane, Washington.

Tacoma Society:
E. N. Dugan, President; P. G. Ball, Vice-President; Lyle Swedberg, Secretary-Treasurer.

Hawaii Chapter:
Kenji Onodera, President, 3518 McCorriston St., Honolulu, T. H.; George J. Wimberly, Secretary, 315 Royal Hawaiian Ave., Honolulu, T. H.

CALIFORNIA COUNCIL OF ARCHITECTS
William Koblik, President, 2203 - 13th St., Sacramento; Donald Beach Kirby, Secretary, 461 Market St., San Francisco; Frederick A. Chase, Exec. Secty., 3723-A Wilshire Blvd., Room 206, Los Angeles.

ALLIED ARCHITECTURAL ORGANIZATIONS

San Francisco Architectural Club:
Charles W. Dennis, President. Joseph Scoma, Vice-President; Russell Pennell, Treas.; Camiel Van De Weghe, Sec. Offices 507 Howard Street.

Producers' Council—Southern California Chapter:
Bert Taylor, President, Pittsburgh Plate Glass Company; G. Robert Roden, Jr., Vice-President, Truscon Steel Company; Malcolm G. Lowe, Secretary, Natural Gas Equipment Inc.; Richard Seaman, Treasurer, W. P. Fuller & Company; Vern Boget, National Director, Gladding McBean & Co.

Producers' Council—Northern California Chapter (See Special Page)

ing. Complete information is available from the Club at 507 Howard Street, San Francisco.

THE ILLINOIS SOCIETY OF ARCHITECTS

The Illinois Society of Architects, at its 55th Annual Meeting recently in Chicago, elected the following officers for the ensuing year:

William Paul Fox, Chicago, President; Benjamin F. Olson, Chicago, 1st Vice-President; A. Reyner Eastman, Rockford, 2nd Vice-President; Virgil E. Gustafson, Chicago, Treasurer; Alfred F. Schimek, La Grange, Secretary; and Gerald L. Palmer, Chicago, Financial Secretary.

Members of the board of directors include F. M. Bernham, Chicago, and T. Clifford Noonan, Wilemette.

The Illinois Society of Architects was organized in 1897 and sponsored the first registration law in the United States for architects.

SAN FRANCISCO ARCHITECT NAMED TO STATE BOARD

Norman K. Blanchard, AIA, Architect, San Francisco, has been reappointed to the California State Board of Architectural Examiners by Governor Earl Warren.

Blanchard, a partner in the architectural firm of Blanchard & Maher, will serve a four-year term. He was first appointed to the Board in 1948 and served as its president in 1950.

ANNUAL CONVENTION AMERICAN INSTITUTE OF ARCHITECTS

Nearly 2000 architects from all parts of the world gathered in New York City the latter part of June to attend the 84th Annual Convention of The American Institute of Architects.

Five full days and nights were devoted to business sessions, sight-seeing trips and entertainment. It was the architects first meeting in New York since 1925, and meetings were held throughout the city's outstanding points of interest.

Among awards made by the Institute were recognition to manufacturers in the field of building products for cooperation rendered the architec-

(See Page 33)

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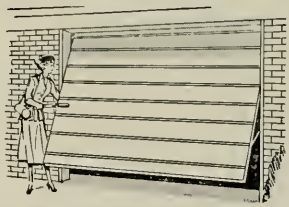

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Structural Engineers Association of Northern California
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Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
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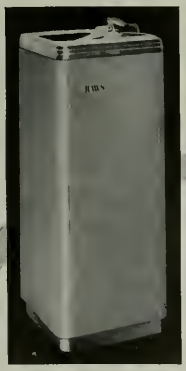

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STRUCTURAL ENGINEERS OF CALIFORNIA CONVENTION

Convention Committee in action, left to right, George Guibert, entertainment; Ted Combs, public relations; Richard Bradshaw, transportation; Robert Kadow, registration and attendance; Lou Osborne, sec.-treas., SEA; J. G. Middleton, general convention committee; Dan Shugart, SEA president; Ben Benioff, chairman general convention; Rube Binder, technical chairman; Ernie Hillman, golf; Henry Lane, banquet; John Minasian, finance; Robert Short, general convention committee; and Leray Frandsen, entertainment.

The general convention committee of the Structural Engineers Association of California, met in Riverside recently, to formulate plans for the 1952 Annual Convention which is to be held at the Mission Inn, Riverside, October 16-17-18.

The technical program tentatively includes speakers from the University of Southern California, Stanford University, California Institute of Technology, University of California, the University of Washington and a number of leading engineers in private practice. The technical sessions will open on the 16th with summaries of the Massachusetts Institute of Technology and the University of California at Los Angeles considering "Earthquakes and Blast Symposiums."

Friday morning, October 17th, will be devoted to making known the extensive research in civil engineering being done on the West Coast. Those interested in a specific problem will be given the

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Directors Harold P. King, Ben Benioff, Donald F. Shugart, Wm. T. Wright, Wm. T. Wheeler, Henry M. Layne and Joseph Sheffet. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

opportunity to know what studies and investigations are currently being carried on by professors, instructors, graduate students and others. Included would be laboratory work, theoretical studies or a combination of these in connection with design, materials, methods, techniques, procedures, and new developments. Friday afternoon speakers will discuss the training of technical men and the problems involved in adequate training of engineers.

Entertainment is being planned on an extensive scale with a banquet and ball at the Mission Inn on Saturday evening.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

The regular August meeting was devoted to the annual Field Day and observed this year at the Oakmont Country Club in Glendale. Golf, swimming, baseball and a number of other sports were observed prior to the annual sportsmen's dinner in the evening.

New members recently added to membership roll include Robert L. Nolan, Sr., ASSOCIATE; Alvan Z. Thornburg, ALLIED; and Robert H. Weight, MEMBER.

ENGINEERING CURRICULA TO BE OFFERED AT DAVIS

The University of California at Davis will offer an undergraduate first and second year engineering curricula to freshmen students enrolling for the 1952-53 academic year, according to H. A. Young, dean of the School of Letters and Science.

FRANKLIN P. ULRICH DIES SUDDENLY

Franklin P. Ulrich, Chief of the Seismological Field Survey of the U. S. Coast and Geodetic Survey, died suddenly from a heart attack on July 2nd. He recently participated in the Symposium on Earthquake and Blast Effect at the University of California at Los Angeles and appeared to be in good health at the time.

Ulrich served as Secretary of the Structural Engineers Association of Northern California and was a member of the Structural Engineers Asscciation of Southern California.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

William W. Moore of Dames & Moore, Foundation Engineers; G. A. Sedgwick of W. P. Day & Associates; and C. R. Graff of the Raymond Concrete & Pile Company, spoke at the August meeting on the subject "Foundation Design and Construction Problems for the Administration Building at the San Francisco Airport."

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PRODUCER'S COUNCIL PAGE

The National Organization of Manufacturers of Quality Building Materials and Equipment (Northern California Chapter) affiliated with THE AMERICAN INSTITUTE OF ARCHITECTS

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Edited by Phil Brown, OTIS ELEVATOR COMPANY.

INFORMATIONAL MEETING

The Palace Hotel was the scene of the last regular informational meeting on July 14, at which time Charlie Nicholas of the Bastian Morley Company, assisted by Herb Lemkau of the Crane Co., presented a program on "The Importance of Hot Water Heating" in custom built homes. Herb Lemkau is the manager of the heating department of the Crane Co. and he discussed some of the recent installations in which radiant baseboard panels were used. We were advised that this type of heating is becoming increasingly more popular in the low cost home as well as the large home of today. Indicative of the interest in this field was the capacity attendance of sixty-eight members and guests at this meeting.

AWARD FOR U. C. SCHOOL OF ARCHITECTURE

It is probably not too well known, but the Producers' Council for the past two years has presented an award of $50.00 to an outstanding post-graduate student of the School of Architecture at the University of California in Berkeley. This award is given to enable the post-graduate student to purchase the beginning of his reference library which he will use while practicing in the profession.

The award this year was presented to Mr. Gerald McCue, Berkeley, California, at the Annual Award Dinner for the School of Architecture. Presentation was made by Mr. Herb Duncan of the Natural Gas Equipment Company.

Mr. McCue who was awarded his masters degree at the last graduation was the runner up to the A.I.A. award to the most outstanding post-graduate student. We are advised by the Committee on Scholarship and Fellowships of the School of Architecture that Mr. McCue is a very outstanding young architect and that the choice between Mr. McCue and the winner of the A.I.A. post-graduate award was very difficult.

EXECUTIVE COMMITTEE MEETING

At the last Executive Committee Meeting, President Al West talked about his trip East during which time he attended the National A.I.A. Convention and some of his comments bear repeating

(See opposite Page)

USE QUALITY PRODUCTS — MANUFACTURERS OF QUALITY BUILDING PRODUCTS — PRODUCERS' COUNCIL — CONSULT AN ARCHITECT

for your reading. Al stressed the point that the San Francisco Chapter of the Producers' Council is known nationally for its fine informational meetings and for its wonderful position in the eyes of the architects.

This is a most enviable position to be in and is the result of the fine work done by our presidents in the past and the result of the work done by the individual members of the organization.

Our Chapter admittedly is not the largest in the country, but we do feel that our meetings and all our activities are conducted in accordance with the highest standards and good taste.

Ours is a question of quality and not of quantity, and to maintain this enviable position, and to keep the trust and good faith of the profession, it will require continued careful attention of all members as well as the executive organization.

As our individual memberships in the Producers' Council is one of selfish interest, it is not only to the benefit of the entire Chapter, but to the benefit of the individual members to continue this fine relationship.

1952 ANNUAL CONVENTION

As you all know, the Annual Convention is to be held at Yosemite National Park on October 9 to 11, and if any member has not applied for the necessary reservations, they are urged to do so, as these reservations are filled on a first come, first served basis. The forms can be obtained from Howard Noleen, of the E. F. Hauserman Company.

A. I. A. ACTIVITIES

(From Page 29)

tural profession during the past year. Among those receiving recognition in the field of technical literature was the Gladding, McBean Company.

Annual awards to the three best American buildings of the year went to New York's Lever House, designed by Skidmore, Owings and Merrill, architects; an Office Building housing the architectural firm of William S. Beckett in Los Angeles; and Gaffney's Lake Wilderness, a building in Maple Valley, Washington, designed by the architectural firm of Young and Richardson, Carleton and Detlie of Seattle, Washington.

ARCHITECTS CONVENING LOS ANGELES IN 1956

The American Institute of Architects will hold its annual convention in Los Angeles in early May of 1956. This decision of the Institute's Board of Directors was disclosed recently by Charles O. Matcham, Los Angeles architect and Director of the Sierra-Nevada District which includes all of California, Nevada and Hawaii. The last Institute convention held in the Southwest was in Yosemite Park in 1941.

Other slated conventions are to be held in Seat-

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tle in 1953, Boston in 1954, Minneapolis in 1955 and Washington, D. C. in 1957.

The national organization of the Producers Council, manufacturers of building materials, will hold its annual convention also concurrently and upward of two thousand delegate registrations are expected. The theme of the convention is scheduled to feature new construction and design trends and it will include tours of television, radio and motion picture studios, freeways, new housing projects and community centers. Post-convention trips to Hawaii, Mexico and the national parks are also included in the schedule of events.

SAN DIEGO CHAPTER

H. V. Simpson, executive vice president of the West Coast Lumberman's Association, and C. J. Ramstrom, manager of the Los Angeles office of the same organization, were speakers at the July meeting. They discussed the subject "The Magic of Lumber" and presented a color, sound-movie on the Douglas Fir, West Coast Hemlock, Sitka Spruce and Western Red Cedar lumber industries.

Don Campbell called attention to the Producers Council barbecue in Los Angeles on September 9th.

Plans were made for an architectural exhibit at the San Diego County Fair with Ray Jung in charge.

JAPANESE INSTITUTE OF ARCHITECTS REPRESENTED

Dr. Shigeni Ito, president of the Japanese Institute of Architects, was one of the speakers at a meeting of the newly-organized Far East Society of Architects, held in Tokyo.

Forty-five Japanese architects were guests of the society at a session which was attended by more than forty American military and civilian architects.

SOUTHERN CALIFORNIA CHAPTER PRODUCERS COUNCIL

Bert Taylor of the Pittsburgh Plate Glass Company was elected president of the Southern California Chapter of the Producers Council at the group's annual meeting.

Other officers named to serve during the 1952-53 year were: G. Robert Roden, Jr., Truscon Steel Company, vice-president; Malcolm G. Lowe, Natural Gas Equipment Inc., secretary; Richard Seaman, W. P. Fuller & Co., treasurer; and Vern Boget of the Gladding, McBean & Company was named National Director.

APPOINTED TO OKLAHOMA HOUSING ACTIVITIES FHA

Hugh Askew of Oklahoma City has been appointed assistant commissioner in charge of field

operations for The Federal Housing Administration with offices in Washington, according to a recent announcement by Walter L. Greene, Commissioner.

Askew was chairman of the FHA commissioner's special field committee during 1950. He will have administrative control and direction of 137 field offices throughout the country and Alaska, Hawaii and Puerto Rico.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

The American Institute of Steel Construction has announced that winners of ten $1000 scholarships in civil engineering include George J. Strom of Oakland, California (sponsored by the Schrader Iron Works of San Francisco).

Winners were selected from a group of 80 high school seniors nominated by 46 steel fabricating companies throughout the nation. A winner may attend any one of 125 accredited colleges in the country offering a degree in Civil Engineering.

The Illinois Institute of Technology is constructing a nine-story apartment building for staff members and students. The 96-unit building will cost $1,085,000 and will not be completely ready for occupancy until 1953.

INTERNATIONAL ARCHITECTS ATTEND A.I.A. CONVENTION

Among numerous architects from other countries attending the 84th Annual Convention of The American Institute of Architects in New York City recently were Robert S. Morris, President of the Royal Architectural Institute of Canada; Carlos Lazo, President of the Mexican Society of Architects; Giovanni B. Ceas, President of the Italian Section, International Union of Architects; Carlos P. Villanova, prominent architect of Venezuela and Preben Hanson, architect of Denmark.

MYRON HUNT, NOTED CALIFORNIA ARCHITECT, SUCCUMBS TO ILLNESS

Myron Hunt, A.I.A., Architect, died at his Pasadena, California, home on May 26th following an illness of two years.

For more than half a century Myron Hunt played an important part in building design and civic betterment throughout southern California and the West. He was active for many years in The American Institute of Architects and the Pasadena Chapter.

STRUCTURAL CLAY PRODUCTS CHIEF VISITS WEST COAST BRICK INDUSTRY

Douglas Whitlock, of Washington, D. C., Chairman of the Board of the Structural Clay Products Institute, met with representatives of the industry

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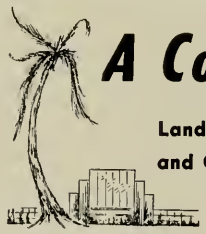

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in San Francisco recently and accompanied members of the local clay brick and tile group on a tour of Northern California plants.

High point of the visit was a luncheon meeting at the Palace Hotel attended by 17 principals from all plants in the area. Important industry-wide problems discussed include Pacific Coast Techniques in reinforced grouted brick masonry, the new "SCR brick" developed by the Structural Clay Products Research Foundation and new developments in wall scaffolding.

The recent Earthquake Engineering Research Institute meetings held at UCLA and Massachusetts Institute of Technology were also discussed along with General industry matters and the coming annual convention of the industry, to be held this year in Bermuda.

CONSERVATION SCHOOL BUILDINGS

(From Page 27)

instruction. This, after all, is the reason for the school and its task in the community.

There is another phase of this subject of conservation when it comes to planning and design. For this, I shall refer to that definition given in the fields of Physics and Chemistry to the word "conservation":

> "Conservation is the principle that the total mass of any material or form is a quantity which can neither be increased or diminished by any action between the parts."

I am going to twist this meaning a bit, and say that it is conservation in school planning to design a building which may be capable of great flexibility. Its functions and parts may change, but the original building will not have to be diminished or increased.

We have seen great changes in educational methods. More are to come, as we progress by experience.

Who can say that what we are doing today in the classroom is the final word and the pattern to be followed during the life of the building? In recent years classrooms have been approaching the square form rather than the traditional rectangular form. We have found many advantages in this, including the cost of construction. But with new ideas and new equipment, classroom shapes and sizes perhaps should change some more.

Some schools built now for children of the elementary grades may be needed in the future for secondary education as the great mass of lower grade children progress into junior high and high schools. This will require a different size classroom or a re-arrangement of rooms within a building.

Since the future of the program may not be fixed rigidly now, it is conservation to plan the building for flexibility, with a rigid frame capable of housing within it a wide number of variations in the use of space. Such conservation may add somewhat to the original cost of construction, but it has already proved itself in many cases to be true conservation. There are a number of school buildings which have been replaced or are standing idle in this country, representing large investments, be-

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cause they were not designed to permit economical changes in the use of the space within the building.

In addition to providing flexibility within a building it is essential to consider the location of the building on the site. The usual considerations of prevailing winds, site drainage, accessibility and orientation are not to be overlooked or minimized, but equally important, is the consideration of expansibility of the school as a whole within a given site. Careful planning for future expansion may eliminate the necessity for acquiring more land that might prove expensive. Efficient utilization of site is a conservation measure.

Now we reach the last point of conservation in schools, and the most important of all—conservation of the health, vigor, enlightenment, and ideals of our youth.

This is no place for a plea for public education, even if a plea were needed, which certainly is not the case. Nor do I ask my fellow architects to pray or weep with me for the future of our country.

But we face daily practical problems in design which do have a bearing on the future generations. Take lighting, for example.

Dr. Charles Sheard of the Mayo Clinic estimated that with normal vision under good lighting conditions we use 25% of our energy doing visual tasks.

The child has only so much energy. If he is called upon to spend more than a quarter of it just seeing and trying to concentrate on the materials before him on his desk, or on the chalkboard, we have robbed him of energy for other things—for growth, for fighting infection, for movement, for organic functions, and all of the other claims made upon him.

Proper lighting then, is a conservation measure for the health and learning progress of the child. The same is true of sound control, and of heating and ventilation. Energy expended to overcome physical discomfort reduces the remaining pool of energy upon which he needs to draw for proper growth and development.

The child of today is subject to many pressures resulting from our modern way of life. The concentration of people in the urban communities, rapid transportation, the restlessness of the modern family, impose a strain upon the energy resources of today's school child.

By providing a proper physical environment within the school we conserve the time and health of our children, and thus contribute to their educational progress, their ideals, their vigor, their enlightenment.

We must make this investment in the younger generation if we are to give them the physical and educational opportunity to develop the great stamina, the vision, and the leadership to cope with future problems which may be even more severe than those thrust upon us.

"Conservation" then is what we really are driving at, when the school board, the administrator, and the architect sit down together to design a school. The educational program does not come from us, but as architects we must be able to offer to the school authorities the best we know, and can devise, to house this program in such manner that it will conserve our financial and human resources to the greatest extent possible.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

NEW BRICK HOMES. Structural Clay Products Institute, Washington 6, D. C. Price 50 cents.

A new planbook containing plans for forty-five modestly-priced brick homes, and representing a cross-section of modern architectural styling, has been published by the Structural Clay Products Institute.

Plans reflect the trend in American home owners' taste and include a number of one-story ranch style designs. The book contains pictures of various homes built throughout the nation.

Suggestions for modern and traditional construction are offered.

DATA BOOK FOR CIVIL ENGINEERS. Vol. I, DESIGN 2nd EDITION and Vol. 2, SPECIFICATIONS and COSTS 2nd EDITION. Publisher John Wiley & Sons, Ltd., 440 Fourth Avenue, New York. Price Vo. I, $10.00 and Vol 2, $13.00.

DICTIONARY OF ARCHITECTURE. By Henry H. Saylor. John Wiley & Sons, Inc., 440 Fourth Avenue, New York 16. Price $4.50.

The author is Editor of The Journal of The American Institute of Architects, FAIA, FRGS, and a registered architect in the State of New York.

The book contains 190 pages of architectural words listed alphabetically with references to a 31-page section of illustrations in the back of the book. It is a valuable book for students, architects, engineers, contractors and anyone interested in the construction industry.

CABINS AND BEACH HOUSES. Lane Publishing Company, Menlo Park, California. Price $1.50.

The publishers of Sunset Magazine have issued this book on Cabins and Beach Houses, which contains 63 workable plans for camps, cabins, and beach houses plus a wealth of practical how-to information on all different phases of getting "that place in the country."

Plans range from simple storage lockers just large enough to hold a family's camping gear, to many-roomed beach and woodland houses that could easily be transplanted to a city site. Practical information covers how to find a cabin or beach house site, financing, insurance requirements and availabilities, basic building requirements, snow load specifications for high country cabins, building materials, how to build your own access road or driveway, interior arrangement and "built-inns," and a lot of other useful information.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

397. DIRECTIONAL LIGHTING CATALOGUE. A new catalog has been issued by the Eagle Manufacturing Company to introduce their SKANDIA directional lighting fixtures. These metallic, accent lights are adjustable for direct and indirect lighting, for wall and ceiling mountings. They come in a choice of four styles—with bullet, diagonal, commercial or megaphone cones in individual units or in clusters. Color is natural aluminum, brass or copper. Finish is baked lacquer, including seven unique ceiling-drop fixtures with numerous residential and commercial possibilities. 8 pages.

398. GLASS IN SANDWICH PANEL CONSTRUCTION. Cellular glass in construction is described in a new brochure recently published by the manufacturer. The folder contains information about the advantages of this material in concrete sandwich panels for various types of buildings—textile, food production, electric power, chemical processing and housing. 4 pages.

399. MANUAL FOR THE DESIGN OF BOX-PLENUM TYPE AIR CONDITIONING DUCT SYSTEMS. This manual has just been issued by the Committee on Domestic Gas Research of the American Gas Association and is known as Project DGR-2-AC. It suggests some simple, inexpensive types of air duct systems that will have efficiencies equal to some of the higher cost systems now in use. The boodklet gives a number of illustrations, charts and tables. 18 pages.

400. CENTRAL CONTROL PANEL SYSTEM. New Barber-Colman Bulletin outlines a technique for use in designing economical automatic electric control installations for heating and air conditioning systems. Cetral Control Panel technique simplifies installation, reduces over-all costs, minimizes service, increases system flexibility, and assists engineers in preparation of specification diagrams. 8 pages, illus., FS265, 7/9/52.

401. RADIANT HEATING LIGHT. A new folder on the Electriglas Thermolite is available. The folder shows the uses of this 3 way light on its application as a heater, light or as both. It also includes information on the Hi-panel heater and base board panel heaters produced by the Appelman Art Glass Works. 4 page folder, illus., 6/52.

402. STUDLESS METAL LATH AND PLASTER 2 INCH SOLID PARTITION. Released by the Metal Lath Manufacturers Assoc. is a new leaflet covering the new type studless partition. More and more architects are conserving steel by eliminating channel studs from the popular space-saving two-inch solid metal lath and plaster partitions thus saving up to 44 per cent by weight of the widely demanded material. Tests conducted by the Metal Lath Manufacturers Association proved that a studless partition retains the same rugged, crack-resistant properties of a metal lath partition with studs. In recent months this studless partition has been featured in some of the largest modern housing developments in the United States. Detroit's Douglas Housing project and San Francisco's multi-million dollar Park Merced project are good examples of recent multiple residences which feature the use of this lightweight partition. Contractors have stated that in addition to saving material costs, the studless partition is simpler to erect thus reducing labor costs. AIA 20-B-1, 4 pages illus., 6/52.

403. WALL AND CEILING PANELS. A revised, 8-page, full-color catalog on Marlite plastic-finished wall and ceiling panels and all other Marsh products is available now for those interested in remodeling or new construction. New this year, and a feature of the up-to-date catalog, are seven Marlite Woodpanels plus new finishes on the plain colors, horizonaline, and tile patterns. Marlite prefinished wallpanels are now available in two finishes: Deluxe and Hi-Gloss. Deluxe specifies a special top-quality wallpanel with a hand-polished finish. Hi-Gloss is the designation for a high-quality, low-cost panel with a high-lustre, mirror-like finish. The seven Marlite Woodpanels, (silver walnut, blond mahogany, gray prima-vera, natural walnut, striped mahogany, light oak, natural prima vera) which authentically reproduce the beauty and coloring of fine, fully-finished wood grains, are shown in color with the five Marlite Marble Panels. In addition to the 67 striking color and pattern combinations fully illustrated in the newly revised catalog, are institutional, commercial, and residential interior photographs of Marlite installations; a new section of metal mouldings, including Marsh color-matched mouldings; Marlite installation accessories, installation instructions, and specifications. AIA 23-L, 8 pages illus., 6/52.

404. ELEVATOR ENTRANCE DESIGN. Two new pieces of literature illustrating elevator door and entrance designs have been issued by the Architectural Products Division of the Otis Elevator Company. "Ornamental Designs" is booklet illustrating 18 basic decorative door designs, applied to both single-slide and center-opening or two-speed elevator doors. The folder, "Special Entrance Designs", reproduces renderings of 42 distinctive elevator entrance treatments for single cars and groups of two or more elevators. B-812, 8 pages illus., 6/52.

405. DISAPPEARING STAIRWAYS. Announcement of a new catalog is made by the Bessler Disappearing Stairway Co. This literature illustrates and describes the seven models in the complete Bessler disappearing stairway line, adaptable to any residence needs. The catalog shows the many installations and types of use that the product can be recommended for. 22n-Be, 4 pages illus., 7/52.

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CARL S. BAUMAN PROMOTED BY STANLEY WORKS

Carl S. Bauman, sales representative in Delaware, Maryland and the District of Columbia, has been appointed assistant general sales manager for The Stanley Works of New Britain, Conn., according to a recent announcement by George P. Merrill, general sales manager.

In his new position Bauman will be responsible for assisting, directing, and supervising the field sales organization and will generally assist Merrill with the "definition and accomplishment of sales objectives."

ENGINEER ACCEPTS PERUVIAN ASSIGNMENT

Dr. Parker D. Trask, research engineer in the department of engineering on the Berkeley campus of the University of California, has accepted an assignment with the Peruvian government and is now in South America.

Dr. Trask will conduct a geological investigation in conjunction with development of water resources in Peru.

OFFICE-FACTORY BUILDINGS

(From Page 13)

sized throughout the building. The dual-purpose conference and display room also reflects this feeling. Designed with sales' sessions in mind, furnishings are functional and easily lend to group seating arrangements, without loss of beauty of design or luxury of appointments.

In addition to careful planning for up-to-the-minute production efficiency, great consideration has been given to overall appearance to effect a pleasing and creditable addition to the neighborhood—of which a part is the small-home development close by.

The building itself is of a design compatible with California landscape, suitable to a manufacturing plant, and of unusually attractive appearance. Monotony of line, so frequently found in utilitarian office-factory construction, has here been broken by a covered parking area on one side and an open, centrally placed patio on the other.

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Deadening felt, 1-lb. 3.79
Asphalt roofing, 15-lbs..... 2.00
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Roofing Papers—
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Standard Grade, 108-ft. roll, Light..... 1.87
Smooth Surface, Medium..... 2.18
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1-Ton lots, per 100 lbs..... $3.75
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Nails, per keg, base..... $11.80
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Lapis (Nos. 2 & 4)	3.56	3.94
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Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
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Two-coat work, $9.00 per square.
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Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, spaad and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings: $300 on old buildings.

FLOORS—

Asphalt Tile, 1/8 in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite, 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd..... $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—1/8"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	¾x2¼	½x2	⅜x2	¼x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅝ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

⅝ x 2¼ First Grade	$390.00
⅝ x 2¼ 2nd Grade	365.00
⅝ x 2¼ 2nd & Btr. Grade	375.00
⅝ x 2¼ 3rd Grade	240.00
⅝ x 3¼ 3rd & Btr. Jtd. EM	380.00
⅝ x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass..... $ .30 per □ ft.
Double Strength Window Glass..... .45 per □ ft.
Plate Glass, ¼ polished to 75..... 1.60 per □ ft.
75 to 100..... 1.74 per □ ft.
¼ in. Polished Wire Plate Glass..... 2.35 per □ ft.
¼ in. Rgh. Wire Glass..... .71 per □ ft.
¼ in. Polished Wire Plate Glass..... 2.00 per □ ft.
¼ in. Rgh. Wire Glass..... .64 per □ ft.
⅛ in. Obscure Glass..... .40 per □ ft.
⅛ in. Obscure Glass..... .64 per □ ft.
⅛ in. Heat Absorbing Obscure..... .58 per □ ft.
¼ in. Heat Absorbing Wire..... .86 per □ ft.
Glazing of above additional $.15 to .30 per □ ft.
Glass Blocks, set in place..... 3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness (3⅜") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x8' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 100.00

Flooring—

	Per M Delvd.
V.G.-D.F. B & Btr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-S1S $170.00
½-inch, 4.0x8.0-S1S 250.00
¾-inch, per M sq. ft. 315.00
Plyscord ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square
Pressure Treated Lumber—
Waimanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patent screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.
For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Three-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All-Purpose (Soft-Paste)

Net Weight Packages	List Price per 100 lbs.	Pr. per pkgs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead—Red Lead in Oil

Price to Painters—Price Per	100 lbs.	50 lbs.	25 lbs.
Products			
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hat roll channels metal lath (lathed only)	3.00
Seilings with ¾ hat roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1-" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLiLime—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply--$11.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $14.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per square.. 18.25
4/2 No. 1-24" Royal Cedar Shinglas 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes. 10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M. $240.00
Standard, 8-in. per M. 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless,
(unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft. .. 1.85

STEEL—STRUCTURAL—

$220 per ton erected, when out of mill.
$270 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.
¼-in. Rd. (Less than 1 ton) $8.40
⅜-in. Rd. (Less than 1 ton) 7.30
½-in. Rd. (Less than 1 ton) 7.00
⅝-in. Rd. (Less than 1 ton) 6.75
¾-in. & ⅞-in. Rd. (Less than 1 ton).. 6.65
1-in & up (Less than 1 ton) 6.60
1 ton to 5 tons, deduct 25c.

STORE FRONTS—

Individual estimates recommended. See ESTIMATORS DIRECTORY for Architectural Veneer (3), and Mosiac Tile (35).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅜" ..... $ .18 - $ .35 sq. yd. Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Lino-Tile—$1.00 per sq. ft
Rubber Tile—$ .55 to $ .75 per sq. ft.

Building Tile—

8x5½x12-inches, per M	$139.50
6x5½x12-inches, per M	105.00
4x5½x12-inches, per M	84.00

Hollow Tile—

12x12x2-inches, per M	$146.75
12x12x3-inches, per M	156.85
12x12x4-inches, per M	177.10
12x12x6-inches, per M	235.30

F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings *(3) refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (1)

Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(35)

AIR CONDITIONING (2)

Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58: 4851 S. Alameda St.
San Francisco: 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (3)

Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259
THE CAMBRIDGE TILE MFG. CO. *(35)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601 Franklin Building
Pasadena 8: P. O. Box 186. East Pasadena Station
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834

BANKS - FINANCING (4)

CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery Sts., EX 2-7700

BATHROOM FIXTURES (5)

Metal
THE CAMBRIDGE TILE MFG. CO. *(35)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(35)

BRASS PRODUCTS (6)

GREENBERG'S, M. & SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK (7)

Face Brick
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
REMILLARD-DANDINI CO.
San Francisco 4: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (8)

GREENBERG'S, M. & SONS *(6)

BUILDING PAPERS & FELTS (9)

ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Blvd.
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY
San Francisco 5: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (9a)

THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (10)

PACIFIC PORTLAND CEMENT
San Francisco 4: 417 Montgomery St., GA 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

CONCRETE AGGREGATES (11)

Ready Mixed Concrete
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond: 26th & B. St. - Yd. 2, RI 4307

DOORS (12)

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
F. M. COBB CO.
Los Angeles & San Diego
SOUTHWESTERN SASH & DOOR
Phoenix, Tuscon, Arizona
El Paso, Texas
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN DOOR CO.
(See above)

FIRE ESCAPES (13)

MICHEL & PFEFFER IRON WORKS, INC.
South Linden & Tanforan Ave.
South San Francisco: JU 4-8362

FIREPLACES (14)

Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St., PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (15)

Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(35)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
San Francisco: 470 Alabama St., MA 1-7766
Los Angeles: 923 E. 3rd, TR 8282
Seattle: 3440 E. Marginal Way
Diversified (Magnesite, Asphalt Tile, Composition, Etc.)
LE ROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LE ROY OLSON CO.

GLASS (16)

W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Ore.

HEATING (17)

S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 N. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
UTILITY APPLIANCE CORP. *(2)
Electric Heaters
WESIX ELECTRIC HEATER CO.
San Francisco 5: 390 First St., GA 1-2211
Los Angeles: 520 W. 7th St., MI 8096
Portland: Terminal Sales Bldg., BE 2050
Seattle: Securities Bldg., SE 5028
Designer of Heating
THOMAS B. HUNTER
San Francisco 4: 41 Sutter St., GA 1-1164

INSULATION AND WALL BOARD (18)

LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY *(9)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Stockton: 733 S. Van Buren, ST 4-9421
Sacramento 1331 - T St., HU 1-0125
Fresno: 434 - P St., FR 2-1600

IRON—Ornamental (19)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

LANDSCAPING (20)

Landscape Contractors
HENRY C. SOTO CORP.
Los Angeles: 13,000 S. Avalon Blvd., ME 4-6617

LIGHTING FIXTURES (21)

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (22)

Shingles
LUMBER MANUFACTURING CO. *(18)

MARBLE (23)

VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (24)

PACIFIC COAST AGGREGATES, INC. *(11)

MILLWORK (25)

LUMBER MANUFACTURING COMPANY *(18)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles, 6820 McKinley Ave., TH 4196

PAINTING (26)

Paint
W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim
PACIFIC COAST AGGREGATES, INC. *(11)

Exteriors
PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio

THE SCOTT COMPANY *(17)

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows
DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGEGATES, INC. *(11)

Fire Doors
DETROIT STEEL PRODUCTS COMPANY

Skylights
DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

KRAFTILE COMPANY *(33)

SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)

HERRICK IRON WORKS *(33)

SAN JOSE STEEL CO. *(33)

COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800

GLADDING, McMEAN & CO. *(3)

KRAFTILE
Niles, Calif.: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

TIMBER—REINFORCING (36)

Trusses
WYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber
J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)

GLADDING, McBEAN & CO. *(3)

KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (August 1, 1952.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68					
BRICKLAYERS	3.25	3.25	3.25	3.00	3.25	3.00	3.375	3.25	3.00	3.00	3.00	3.00	3.00
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.45	2.45	1.75	1.75	1.75	1.75	1.75
CARPENTERS	2.60	2.60	*2.39	*2.39	*2.39	*2.39	*2.39	*2.39	2.35	2.35	2.35	2.35	2.43
CEMENT FINISHERS	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	2.38	2.38	2.38	2.38	2.38
ELECTRICIANS	2.915	2.915	2.915	2.915	2.75	2.75	2.75	2.75	3.00	3.00	3.00	3.00	3.00
ELEVATOR CONSTRUCTORS	2.75	2.70	2.65	2.75	2.915	2.915	2.915	2.915	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.25	2.30	2.30	2.30	2.00	2.00	2.00	2.00	1.96
IRONWORKERS: ORNAMENTAL	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.255	2.255	2.255	2.255	2.255
REINF. RODMEN	*2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.70	2.70	2.70	2.70	2.70
STRUCTURAL	*2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.38	2.38	2.38	2.38	2.45
LABORERS: BUILDING	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.65	1.65	1.65	1.65	1.65
CONCRETE	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.75	1.75	1.75	1.75	1.75
LATHERS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.8125	1.75	1.75	1.75	1.75	1.75
MARBLE SETTERS	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.40	2.40	2.40	2.40	2.40
PAINTERS	**2.45	2.45	2.45	2.45	2.365	2.45	2.45	2.475	2.22	2.22	2.22	2.22	2.22
PILEDRIVERS	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	2.56	2.38	2.38	2.38	2.38
PLASTERERS	3.125	3.165	3.125	3.125	3.00	3.00	3.125	3.00	2.48	2.48	2.48	2.48	2.48
PLASTERERS, HODCARRIERS	2.60				2.50	2.50		2.50	2.15	2.25	2.30	2.00	2.00
PLUMBERS	2.90	2.90	2.875	2.75	2.425	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
ROOFERS	2.50	2.50	2.50	2.75	2.50	2.50	2.50	2.50	2.25	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.475	2.475	2.3125	2.43	2.50	2.50	2.40	2.415	2.15	2.15	2.175	2.00	2.15
SPRINKLER FITTERS	2.75	2.70	2.71	2.675	2.675	2.675	2.75	2.75	2.25	2.25	2.75	2.25	2.25
STEAMFITTERS	2.75	2.90	2.90	2.75	2.725	2.875	2.75	2.75	2.50	2.50	2.50	2.50	2.50
TRUCK DRIVERS—½ Ton or less	1.89	1.99	1.99	1.89	1.89	1.74	1.89	1.89					
TILESETTERS	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.955	1.83	1.83	1.83	1.83	1.85

* 6 Hour Day. ** 7 Hour Day. *** Before C.I.S.C for 15c increase.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

LEONARD HOBBS ELECTED A LIGHTING SOCIETY OFFICER

Leonard A. Hobbs, vice president in charge of sales and public relations for the Smoot-Holman Company of Inglewood, California, has been elected Regional Vice-President of the Illuminating Engineering Society for the South Pacific Coast Region.

The Illuminating Engineering Society was founded in 1906 and its present day membership of 7600 illuminating engineers and lighting specialists is divided into ten regions.

ARCHITECT MOVES OFFICE

Architect Joseph Esherick of San Francisco, has moved into new offices at 2065 Powell Street. He was formerly located at 442 Post Street.

NEWS & COMMENT ON ART

(From Page 8)

representing a series of prints of the Southwest, by Theodore Van Soelen, is also presented.

The Pictures of the Month will feature Animals and Fantasy in Oils, Watercolors, and Textiles for Nurseries and Children's Rooms.

CALIFORNIA SCHOOL OF FINE ARTS

Annual awards of the Albert M. Bender Grants-in-Aid have been made by trustees of the Bender Memorial Trust for the tenth and last time.

Winners of the $1500 each stipend are Robert Neuman and Lundy Siegriest in the field of Painting; Milton Lott and Varley McBeth in Literature; and Dody Warren and Philip Hyde in Photography.

All of the winners are residents of the Bay Area except Dody Warren who resides in Carmel, Calif.

AFRICAN ART ON TOUR

A comprehensive loan exhibition assembled by the Segy Gallery of New York is on tour and has been scheduled for the following showings on the Pacific Coast.

The California Palace of the Legion of Honor, San Francisco; Rosicrucian Egyptian Oriental Museum, San Jose; Henry Gallery at the University of Washington, Seattle; San Joaquin Pioneer Museum, Stockton, California; the Tacoma Art League, Tacoma, Washington; and the Erb Memorial Gallery, the University of Oregon, Eugene.

Other Western showings include the University of New Mexico, Albuquerque.

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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

SALES & OFFICE BUILDING, San Francisco. Cahill Construction Co., owner. 1 & part 2 story, 46,000 sq. ft., $151,750. STRUCTURAL ENGINEER: Felix Spitzer, San Francisco. Reinforced concrete construction, wood roof, steel sash, compasition roofing. GENERAL CONTRACTOR: Cahill Construction Co., San Francisco.

BUSINESS EDUCATION BUILDING, Kentfield, Marin County. College of Marin, owner. $91,772. ARCHITECT: William Corlett, San Francisco. 1 story frame and stucco, tile roof, wood sash, asphalt tile floors. GENERAL CONTRACTOR: Oscar Presco & Son, San Francisco.

ROOSEVELT HIGH SCHOOL ASSEMBLY & ALLIED ARTS CLASSROOM BUILDING, Fresno, Fresno County. Fresno Unified School District, owner. Seating capacity, 2152. $1,081,412. ARCHITECT: Lake & DiLuck, Fresno. Reinforced concrete and structural steel frame and frame construction. GENERAL CONTRACTOR: Harris Construction Co., Fresno.

STUDENT CENTER BUILDING, Costa Mesa, Orange County. Board of Trustees of the Orange Coast Junior College District, owner. 15,000 sq. ft., $174,542. ARCHITECT: Robert E. Alexander, Los Angeles. Wood frame, plaster and brick veneer construction, composition and gravel roofing, concrete caissons, grade beams and slab, asphalt tile, ceramic tile and alternate of quarry tile floors, aluminum projected sash, steel beam H Columns. GENERAL CONTRACTOR: South Coast Construction Co., Newport Beach.

REHABILITATE BARBARA WEBSTER SCHOOL, Santa Paula, Ventura County. Santa Paula Elementary School District, owner. $92,085. ARCHITECT: Roy Wilson, Santa Paula. Earthwork, demolition, concrete work, roofing, tile work. GENERAL metal work, roofing, tile work. GENERAL CONTRACTOR: Barringer & Botke, Santa Paula.

NEW CITY HALL & POLICE STATION, San Bruno, San Mateo County. City of San Bruno, owner. $243,789. ARCHITECT: William H. Rowe, San Francisco. 1 story reinforced concrete construction, jail equipment. GENERAL CONTRACTOR: Jos. Bettancourt, San Bruno.

PORTABLE CLASSROOM BUILDINGS, Sacramento, Sacramento County. Sacramento Unified School District, owner. 27 portable classrooms, $215,164. ARCHITECT: Harry J. Devine, Sacramento. Frame construction. GENERAL CONTRACTOR: Edwin J Mackey, Sacramento.

ADMINISTRATION BUILDING, Sacramento, Sacramento County, Procter & Gamble Co., owner. 2-story, 15,000 sq. ft., $250,000. ARCHITECT: Richard Graef, Cleveland, structural steel frame, precast concrete, Roman Brick & Plate Glass. GENERAL CONTRACTOR: H. K. Ferguson Co., Sacramento.

ALCOHOL PLANT, BLDGS. & EQUIPMENT, Sacramento, Sacramento County. Procter & Gamble Co., owner. $12,273,915. PLANS BY: H. K. Ferguson Co., Cleveland. Refinery, stills, piping, control bldgs. GENERAL CONTRACTOR: H. K. Ferguson Co., Sacramento.

ADD. TO GYM-AUDITORIUM, Boron, Kern County. Muroc Elementary School District, owner. Toilet and locker rooms, 7120 sq. ft., $75,000. ARCHITECT: Ernest L. McCoy, Bakersfield. Frame and stucco construction, composition roofing, maple and concrete floors, sheet rock, insulation, plaster, reinforcing steel, wood sash, wood roof trusses. GENERAL CONTRACTOR: Fred S. Macomber, Los Angeles.

SIERRA VIEW ELEMENTARY SCHOOL, Chico, Butte County. Chico Elementary School District, owner. 8 classrooms, administration, multi-purpose, kindergarten, kitchen and toilet rooms, $294,807. ARCHITECT: Lawrence G. Thompson, Chico. GENERAL CONTRACTOR: Fred Chapek & Dorville-Gallino & Kohler, Sacramento.

STORE BUILDING, Antioch, Contra Costa County. Stamm Theatres, Inc., owner. $270,000. ARCHITECT: W. D. Peugh, San Francisco 1 story, L shaped, 70 x 200 x 120, reinforced concrete and frame construction. GENERAL CONTRACTOR: Murray R. Kay, Antioch.

PAROCHIAL SCHOOL, Los Angeles, Los Angeles County. Roman Catholic Archbishop of Los Angeles, owner. 1 story, 8 rooms, $118,150. ARCHITECT: Anthony A. Kauzer, Los Angeles. Reinforced concrete construction. GENERAL CONTRACTOR: Jeannero & Weston, South Gate.

NEW PLEASANT HILL HIGH SCHOOL, Pleasant Hill, Contra Costa County. Mt. Diablo Unified School District, owner. 40 classrooms, administration, science, homemaking, art, gym, little theatre, music, shop, toilet rooms, $1,151,985. ARCHITECT: Reynolds & Chamberlin, Anderson & Simons, Confer & Willis, & John Lyon Reid. 75,000 sq. ft. Frame and stucco construction. GENERAL CONTRACTOR: Indenco, Oakland.

LOW RENT HOUSING PROJECT, Sanger, Firebaugh, Highway City, Fresno County. Housing Authority, owner. 35 family units, Sanger; 50 family units, Firebaugh; 24 family units, Highway City, $759,485. ARCHITECT: John P. Miller, Fresno. GENERAL CONTRACTOR: Ellis & Spano, Fresno.

BANK BUILDING ADDITION, Oakland, Alameda County. Oakland Bank of Commerce, owner. 3 story and mezzanine and basement, $222,166. ARCHITECT: Carl I. Warnecke & John C. Warnecke, Oakland. Reinforced concrete, structural steel construction. GENERAL CONTRACTOR: Christensen & Lyons, Oakland.

HIGH SCHOOL ADDITION, King City, Monterey County. King City Joint Union High School District, owner. Gym bldg., science, and commercial units, $397,789. ARCHITECT: Frank Wynkoop & Assocs., Carmel. 1 story, reinforced concrete and concrete block and frame construction. GENERAL CONTRACTOR: Tombleson & Huck, Salinas.

NEW ELEMENTARY SCHOOL, Atwater, Merced County. Mitchell Union Elementary School District, owner. 7 classrooms, library, homemaking, multi-purpose, shop and girls shower rooms and toilet rooms, $513,170. ARCHITECT: Frank Wynkoop & Assoc., Fresno. GENERAL CONTRACTOR: Bishop, Younger & Bradley, San Francisco.

BELLEVUE ROAD SCHOOL, Atwater, Merced County. Mitchell Union Elementary School Dist., owner. 12 classrooms, administration, kindergarten, multi-purpose, kitchen and toilet rooms, $372,148. ARCHITECT: Frank Wynkoop & Assoc., Fresno. Concrete block, steel columns, wood roof, composition roofing. GENERAL CONTRACTOR: Bishop, Younger & Bradley, San Francisco.

CHURCH, Placerville, Eldorado County. Federated Church, owner. $50,000. ARCHITECT: Chas. F. Dean, Sacramento. 1 story concrete block and frame construction. OWNER BUILDS & AWARDS SEPARATE CONTRACTS.

ADMINISTRATION BUILDING, Torrance, Los Angeles County. General Petroleum Corp., owner. 2 story and part basement, $635,000. ARCHITECT: Albert C. Martin & Assocs., Los Angeles. Reinforced brick construction. GENERAL CONTRACTOR: P. J. Walker Co., Los Angeles.

LOW RENT HOUSING PROJECT, Fowler, Huron and Mendota, Fresno County. Housing Authority of Fresno County, owner. 20 family units, Fowler; 24 family units, Huron; $457,600. ARCHITECT: Ben Lippold, Fresno. GENERAL CONTRACTOR: Willis & Willis, Fresno.

LOW RENT HOUSING PROJECT, Selma, Kerman, San Joaquin, Fresno County. Housing Authority of Fresno County, owner. 25 family units, Selma; 40 family units, Kerman; 29 family units, San Joaquin, $242,000. ARCHITECT: Walter Wagner, Fresno. GENERAL CONTRACTOR: Willis & Willis, Fresno.

WAREHOUSE BUILDING, Oakland, Alameda County. Stokely Foords, Inc., owner. 1 story, 172 x 253 ft., $125,000. STRUCTURAL ENGINEER: H. M. O'Neil Co., Oakland, concrete block, structural steel columns, wood roof trusses. GENERAL CONTRACTOR: Swinerton & Walberg, Oakland.

NEW 7TH AND 8TH GRADE SCHOOL BUILDING, San Carlos, San Mateo County. San Carlos Elementary School District, owner. 10 classrooms, administration, multi-purpose, library, locker rooms, kitchen, toilet rooms, $434,350. ARCHITECT: John Lyon Reid, San Francisco. Frame and stucco

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construction. GENERAL CONTRACTOR: B & R Construction Co., San Francisco.

KALIHI VALLEY HOMES LOW RENT HOUSING PROJECT, Kalihi Valley, Hawaii. Hawaii Housing Authority, owner. 45 apartment buildings, 400 dwelling units, administration building, parking areas, playgrounds, street and area lighting systems, storm drainage systems, $3,397,000. ARCHITECT: Merrill, Simms & Roehrig, Honolulu. Concrete and masonry construction, composition roofing, sheet metal, ceramic tile, glazing, painting shades. GENERAL CONTRACTOR: Hawaiian Dredging Co., Honolulu.

OFFICE AND MANUFACTURING BUILDING, Los Angeles, Los Angeles County. Ice Capades, owner, 125x180 ft., $150,000. ARCHITECT: Stiles Clements, Los Angeles. Brick construction, composition roofing, interior plaster, pipe railing, asphalt concrete paving, sliding plate glass doors, wood partitions, stone and brick veneer, vault and heater rooms, toilets aluminum louvers, concrete ramps, acoustic tile, air conditioning, steel sash, wood trusses, steel decking, stall showers, bar. GENERAL CONTRACTOR: Donald F. Shaw, Los Angeles.

COUNTY OFFICE BUILDING, Modesto, Stanislaus County, County of Stanislaus, owner. 1-story, 60,000 sq. ft., agricultural department, $766,426. ARCHITECT: R. G. DeLappe, Berkeley. Concrete block & frame construction. GENERAL CONTRACTOR: Bishop, Younger & Bradley, San Francisco.

BOULDER CREEK ELEMENTARY SCHOOL ADDITION, Boulder Creek, Santa Cruz County. San Lorenzo Valley Unified School District, owner. 2 classrooms, remodel from playshed, $21,190. ARCHITECT: John Lyon Reid, San Francisco, interior & exterior remodel, concrete floor, radiant heating. GENERAL CONTRACTOR: Geo. W. Davis, Watsonville.

STORES, APARTMENT BUILDING, Los Angeles, Los Angeles County. Steve Sausedo, owner. 2-story, 8-family units, $70,000. STRUCTURAL ENGINEER: W. D. Treadway, Los Angeles, frame & stucco construction, 80x92 ft., composition roofing, hardwood, linoleum flooring on concrete slab, gas water heaters, tile baths, stall showers, steel sash, insulation, sliding wardrobe doors, plate and corrugated glass, concrete block wall. GENERAL CONTRACTOR: Jack Wilde, Burbank.

WESTVIEW SCHOOL, Imperial Beach, San Diego County. South Bay Union School District, owner. 7 classrooms, administration, two kindergartens, multi-purpose building, $299,200. ARCHITECT: Paderewski, Mitchell & Dean, San Diego. Masonry construction, composition roofing, concrete floor, radiant and forced air heating, asphalt tile floors, steel sash, steel roof trusses, fire doors, ceramic tile. GENERAL CONTRACTOR: R. J. Hortie, San Diego.

STORE BUILDING, San Jose, Santa Clara County. Martines, owner, $121,108. ARCHITECT: Kurt Gross, San Jose. 1-story, basement & mezzanine, 94x120, reinforced concrete, frame construction. GENERAL CONTRACTOR: Lew Jones Construction Co., San Jose.

STORAGE AND PROCESSING BUILDING, Venice Los Angeles County. Hayden Lee Corp., owner, 232x392 ft., $340,000. ARCHITECT: S. Charles Lee, Venice; STRUCTURAL ENGINEER: Edmund Feldman, Venice, reinforced concrete construction, fireproof composition roofing, cement and asphalt tile floors, acoustic tile ceilings, gas heating, mahogany paneling, metal sash, steel columns, wood trusses, asphalt concrete paving. GENERAL CONTRACTOR: Hayden Lee Corp., Venice.

MOVING AND RECONSTRUCTION OF WAREHOUSE, PUMP HOUSE, TANKS PIPING, & OIL BARGE WHARF, Emeryville, Alameda County. Pabco Products, Inc., owner, $595,297. STRUCTURAL ENGINEER: Earl & Wright, San Francisco, moving buildings and facilities for widening of East shore highway. GENERAL CONTRACTOR: Peter Kiewit Sons Co., San Francisco.

JUSTICE BUILDING, Anaheim, Orange County. Orange County Board of Supervisors, owner. 1-story, 5,000 sq. ft., $92,292. ARCHITECT: Wildman and Faulkner, Santa Ana, frame & stucco construction, shingle tile and built-up roofing, asphalt tile floor, brick veneer, forced air heating system, ceramic tile work, steel sash, plate glass. GENERAL CONTRACTOR: C. R. Young & Sons, Anaheim.

BERNAL DWELLING HOUSING PROJECT, San Francisco Housing Authority of the City & County of San Francisco, owner. 208 units, $1,560,287. ARCHITECT: William G. Merchant, San Francisco. 1 8-story reinforced concrete bldg., 1 auto elevator, 12 3-story frame & Stucco construction bldgs. GENERAL CONTRACTOR: Theo. G. Meyer & Sons, San Francisco.

WAREHOUSE, West Los Angeles, Los Angeles County. Janss Investment Corp., owner. 118x260 ft., $110,000. ARCHITECT: Paul F. Hartman; STRUCTURAL ENGINEER: W. T. Wheeler, reinforced brick construction, composition and gravel roofing, concrete slab flooring, gas water heater, steel beams and columns, steel rolling doors, metal toilet stalls, ventilation, asphalt concrete paving. GENERAL CONTRACTOR: Bibb, Remmen and Bibb, Glendale.

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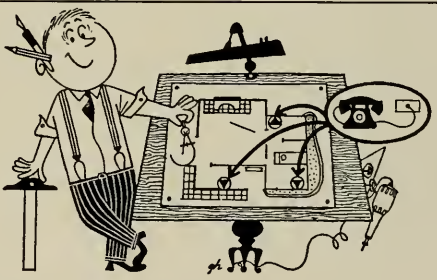

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IN THE NEWS

ARCHITECT SELECTED

Architect George E. Ellinger of Oakland has been chosen by the American Trust Company, San Francisco, to draft plans and specifications for the construction of a new branch bank in Oakland.

Estimated cost of the new building is $92,900.

SPARKS HOSPITAL ADDITION

Architect Russell Mills of Reno, Nevada, has been commissioned by the State of Nevada to design an addition to the Nevada State Hospital at Sparks.

The new building will comprise a laundry, kitchen, commissary, cafeteria, and a new boiler room.

COUNTY OFFICE BUILDING

The Sutter County Board of Supervisors recently authorized the expenditure of $498,887 for the construction of a new County Office Building in Yuba City.

The new building will be of 1 story, reinforced concrete construction and will contain 27,000 sq. ft.

Harry J. Devine of Sacramento is the architect.

CAST STEEL FOUNDRY FOR OAKLAND

The General Metals Corpn. has been granted a certificate of necessity for the construction of a new cast steel foundry building in Oakland.

The new plant will contain 125,000 sq. ft.; will be of structural steel frame and reinforced concrete, and will cost an estimated $5,000,000.

McClellan & MacDonald of Los Angeles are the architects.

ARCHITECT CHOSEN SCHOOL BONDS VOTED

Architect Ben F. L. Lippold of Fresno has been chosen by the West Side Union High School District, to draft plans and specifications for the construction of an addition to the High School at Los Banos.

Voters of the district have approved a bond issue of $275,000 for the work.

AVIATION IMPROVEMENTS UNDER WAY IN NEVADA

The U. S. Navy, through the Public Works Office in San Bruno, California, announced recently the construction of improvements to the Naval Auxiliary Landing Field at Fallon, Nevada.

More than $2,259,000 will be spent in improving runways, taxiways and a number of buildings.

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ARCHITECT LIBRARY SERVICE AVAILABLE

Reorganization of the Library of Architecture and Allied Arts has been completed under the direction of Mrs. Genie Alexander, librarian.

Several hundred new books, periodicals, pamphlets and handbooks have been added to the library which is located at 3723 Wilshire Blvd., Los Angeles.

The library is open from noon to 5 p.m. Monday through Friday and from 7 to 11 p.m. Wednesdays. Architect David Witmer, AIA, heads the board of directors of the 25-year old library.

ARCHITECT SELECTED

The architectural firm of Sorensen & Ellsworth (Mark Ellsworth, AIA, and Larue Sorensen, Hospital Consultant) have been chosen by the Washington Township Hospital District of Niles, to design a 50-bed hospital to be constructed near Niles.

The building will be of reinforced concrete and steel.

NEVADA ARCHITECT ON SCHOOL PROJECT

Architect Richard Stadelman & Associates of Las Vegas are preparing plans for two new schools. One to be built at the Westside School site in Las Vegas, a 14-classroom, cement block structure; and another on the North 9th street school site, a 6-classroom, cement block building.

HOWARD W. NOLEEN GETS APPOINTMENT

Howard W. Noleen, salesman for the E. F. Hauserman Company since 1947, has been appointed district manager of the company's San Francisco office according to an announcement by Fred M. Hauserman, company president.

Noleen succeeds William Hauserman, recently transferred to Los Angeles.

A native of Minneapolis, Noleen is vice president of the Northern California Chapter of the Producers Council.

UNIVERSITY OFFERS PLUMBING COURSE

The National Association of Master Plumbers in cooperation with the State University of Iowa is now offering a scholarship for special training in those phases of engineering which are applicable to the plumbing industry.

Scholarships are avaailable to a limited number of properly qualified sons of association members.

HOSPITAL BOND ELECTION LOSES

A special election to provide $600,000 in bonds for the construction of a new wing and 104-bed addition to the Sonoma County Hospital at Santa Rosa was recently defeated by voters.

The proposed addition was to have been 2 story and of reinforced concrete construction.

NEW SAN CLEMENTE CONTRACTORS GROUP

Leo F. Smith has been elected president of the newly organized San Clemente Contractors Association.

Other officers include F. S. McGurk, first vice president; Walter E. Wrightman, second vice-president; John Miller, secretary; and J. G. Douglass, treasurer.

SEWAGE TREATMENT PLANT FOR AIR FORCE

The Corps of Engineers, U. S. Army, recently announced plans for the construction of a new sewage treatment plant for the Stead Air Force Base near Reno, Nevada.

SCHOOL BONDS APPROVED

Voters of the Woodland High School District recently approved a school bond issue of $975,000 with funds to be used in the construction of a new East Yolo Branch High School building.

The new building will contain 12 classrooms, administration, science, business, home-making, library, cafeteria, shops, toilets, and a combination gymnasium and auditorium.

CONTRACTORS IN THEIR NEW SAN JOSE BRANCH

The Santa Clara Valley office of the Peninsula General Contractors and Builders Association is now located at 75 Bassett Street, San Jose.

Increased building activity in Santa Clara county necessitated opening the new offices, according to Association officials. Open house was held early in July.

ALCOHOL PLANT FOR SACRAMENTO

A N.P.A. permit has been granted and work will soon start on a $12,273,000 plant in Sacramento for the Procter & Gamble Company of Cincinnati, Ohio.

Construction will include a refinery, stills, and a control building.

NEW LAW LIBRARY FOR LOS ANGELES

Construction of Los Angeles County's new $1,129,900 law library in the Los Angeles Civic Center has been started and according to city officials will represent one of the foremost of such buildings in the nation when completed.

It will be four stories in height and will contain 33,000 sq. ft. Austin, Field & Fry are the architects.

RENO BUILDS NEW MARINE CORPS RESERVE BUILDING

The U. S. Navy, Public Works office, has nounced construction of a new $46,000 Marine Corps Reserve administration building at the Navy Reserve Training Center in Reno, Nevada.

The building will be 40 x 100 ft. on a concrete slab foundation.

NEW CHURCH AT TURLOCK

Architect John C. Anthony of Oakland has been commissioned to design a church and Sunday school building for the Methodist Church of Turlock.

The new building, costing $150,000, will be of brick and frame construction.

SCHOOL CAFETERIA FOR CULVER CITY

Construction of a complete school cafeteria and dining unit for the Culver City Unified School District has been announced by Jack Singer, Superintendent.

Designed by Daniel, Mann, Johnson & Mendenhall, Los Angeles architects and engineers the project will cost $378,000.

BANK SITE PURCHASED

The Bank of America has purchased a site on Del Paso Blvd., in North Sacra-

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ments, and will construct a new branch bank building there in the near future, according to an announcement by the Capitol Company.

DEPARTMENT STORE FOR WALNUT CREEK

The MacDonald Products Company of San Fraancisco will build a new building in the Broadway Shopping Center of Walnut Creek, Alameda County, for Capwell's Department Store of Oakland.

The project will cost in excess of $1,000,000. Plans are being prepared by Welton Becket & Associates, architects, Los Angeles.

ARIZONA AIRPORT PROJECTS ASKED

Airport construction projects totaling $538,000 for Phoenix, Tucson and Douglas have been asked by Secretary of Commerce Sawyer.

The three cities are listed among 140 airport projects totaling about $27-million for which federal funds were requested.

WAIKIKI BEACH TO BE IMPROVED SOON

Plans for restoring and improving Waikiki Beach, Honolulu, in a cooperative undertaking by the Territory of Hawaii and the United States Government have been recommended by field offices of the Corps of Engineers.

Proposals of work were submitted by the San Francisco District Engineer and the South Pacific Division Engineer. They will go before the Beach Erosion Board in Washington for review before being finally considered by the Chief of Engineers prior to submission to Congress.

FEDERAL FUNDS FOR AIR FORCE

The Corps of Engineers, U. S. Army recently announced substantial additions to the Air Force facilities at Sacramento and Fairfield will be made.

Details are lacking but it is estimated more than $34,000,000 will be expended in the project.

DEFENSE HOUSING TRAILER PROJECT

The Public Housing Administration, through the Housing and Home Finance Agency in San Francisco, has announced plans for the construction of a defense housing trailer project at the Beale Air Force Base near Marysville.

The project includes the site for 250 trailers; construction of community maintenance and management buildings; and 3 laundry buildings. It will cost $247,871.

Reynolds & Chamberlin of Oakland are the architects.

BEVERLY HILLS INSRANCE AGENCY

Atlas Insurance Agency have moved into their new 2-story building on the corner of Beverly Drive and Whitworth Drive in Beverly Hills.

The new building was designed by Architect Rowland H. Crawford and provides a combined exterior and interior attractiveness with carefully planned office and working space to produce maximum operating efficiency.

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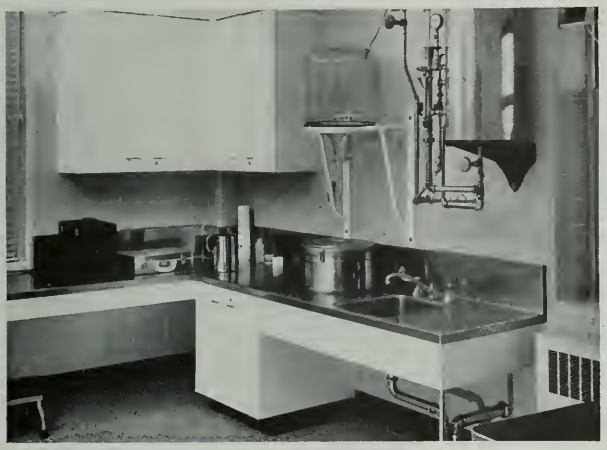
ARCHITECT AND ENGINEER

GENERAL SERVICES ADMINISTRATION WAREHOUSE

SEPTEMBER 1952

to aid human vision . . .

new tones of real clay Suntile provide interiors that are easy on the eyes



Light Pearl Gray 333

Bright Pearl Gray 733

Suntile LIGHT PEARL GRAY, BRIGHT PEARL GRAY

Versatile colors of wide application

Gray is one of the most acceptable colors in the tile field. These two Suntile grays are new tones developed to meet specific needs of commercial, industrial and institutional interiors. Light Pearl Gray, for instance, has a soft "satiny" tone. It is a neutral shade that will not distract the eye and is helpful where glare should be avoided and eyestrain relieved. Like Suntile Sea Green, Light Sea Green, Marble Tan and Fawn, Light Pearl Gray is most suitable for operations involving critical and severe use of the eyes.

Bright Pearl Gray has a hard, lustrous finish that is virtually scratch-proof. It is best applied where critical seeing tasks need not be performed as in larger, more open wall areas. These two new Suntile colors are part of the Suntile line of functional colors developed by Faber Birren, noted color authority, and The Cambridge Tile Mfg. Co.

Wherever critical seeing tasks are performed authorities say a neutral, non-distracting background is advantageous.

Likewise, it is important to reduce glare and produce a better, more diffuse light reflection.

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The new Suntile functional color line includes soft tones and finishes that were developed with the *eyes in mind*. With them you can design and build interiors that will give better lighting, improve production, and reduce accidents . . . interiors that integrate the room with the task to be performed.

And remember, all Suntile products are real clay tile, thus reducing maintenance and repair to a minimum and making cleanliness easy to achieve with soap and water.

SEND FOR NEW COLOR BOOKLET. To help you select the *right* color for commercial, industrial and institutional interiors we have prepared a new descriptive booklet, "Suntile Functional Color Recommendations." Your Authorized Suntile Dealer will give you a free copy or you may write us direct, Dept AE-9, The Cambridge Tile Mfg. Co., P. O. Box 71, Cincinnati 15, Ohio.

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Vol. 190 No. 3

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COVER PICTURE:

GENERAL SERVICES ADMINISTRATION WAREHOUSE

South San Francisco, California

One of the largest new warehouses in northern California built for the U. S. Government by the General Warehouse Company of which Fred D. Parr is the president.

Structure contains some 570,000 sq. ft. of floor space and many unusual details designed by the San Francisco architectural firm of Ward & Bolles. See page 16 for details.

Photo by Moulin

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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. EDITORIAL NOTES .

YOUNG VOTERS ! ! !

You have taken this country as your birthplace.

You toddled around and laughed and grew under the sunshine skies of Liberty.

Your fathers and mothers put you to bed each night with the confidence of Freedom, not in furtive fear.

You learned in free schools.

You played ball or skated or jumped rope without a care in the world.

Your stomach was full, your clothes were warm, your roof was sound.

You enjoyed the privileges and pleasures, movies and cars, treats and trips like no other youth growing up in the world ever did before.

Now, you are of age.

Now, you are full fledged citizens.

Now, it is your turn to pay with a little of your time and some of your thought for a lot of the things you received when you were growing up.

You can be sure and VOTE at the General Election on November 4th.

You can VOTE to keep your country truly American—so that the children you are raising will have a youth of free years.

Remember . . . each particle of sand HELPS to make a sand pile . . . each vote helps to mold the future of our nation.

* * *

You cannot help men permanently by doing for them what they could and should be doing for themselves—Abraham Lincoln.

* * *

INDEFENSIBLE ATTACK

President Harry Truman's unprovoked attack on the nation's private power companies is indefensible and basically socialistic.

Truman is threatening private power interests with a Department of Justice investigation claiming they "are following the Soviet and Fascist line, deliberately and in cold blood setting out to poison the minds of the people," through an advertising campaign.

While none of this advertising has appeared in ARCHITECT & ENGINEER, the advertisements do say that power companies are heavy taxpaying institutions and that the government power projects are socialistic. Both of these statements are matters of simple fact.

It is not surprising that the power companies should take the opportunity to tell their message to the public, and to point out that tax free government power development programs are striking at the roots of the American tradition of free enterprise. Government sponsored power projects do not hesitate to utilize free use of the mails and great volumes of free publicity to try and convince the public.

In reality who are the private power companies? They are simply you and I and thousands of other citizens who have invested money with capable leadership in an effort to improve the standards of living throughout the nation. History has proven that this leadership can do a pretty good job if not hampered by government interference and competition.

* * *

"Economic security cannot be gained by avoiding risk, for there is no security without opportunity, and seldom is there opportunity without hazard":—Benjamin F. Fairless, Pres. US Steel Corpn.

* * *

BILLIONAIRE'S CLUB

Latest reports show Connecticut, Virginia, and Wisconsin have joined fourteen other states as members of the Billionaire's Club, most exclusive (and expensive) club in America.

Membership in this currently fashionable group is limited to those states which pay the Federal Government a billion dollars, or more, in taxes each year.

Other members include California, Illinois, Indiana, Kentucky, Maryland, Massachusetts, Michigan, Missouri, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas.

Uncle Sam's largest single taxpayer is the state of New York with a payment this year of $12.2 billion. Federal tax collection for the fiscal year ending June 30th hit a new peak of $65 billion.

* * *

THE UNITED WAY

October is RED FEATHER month . . . the time each year when health and welfare agencies unite in one campaign to raise money for the continuance of their services.

In towns and cities all over the United States and Canada these services for babies and young people, for families, for the ill, the aged and the handicapped are vital to the welfare and happiness of every individual in the community.

Home town needs and national health and welfare programs such as those made necessary by the defense effort are met by your contribution to your united RED FEATHER campaign.

GIVE — The United Way — FOR ALL RED FEATHER SERVICES.

New Sunset District Firehouse, San Francisco: Architect, J. S. Gould, A.I.A.; Structural Engineer, John A. Blume; City Hall Architect, Dodge A. Riedy

CLAY BRICK and Architectural Skill Combine to make a Firehouse A THING OF BEAUTY

FRIENDLY neighborhood acceptance is usually a major problem in site selection for a Firehouse. Colorful Clay Brick plus good design gives the structure a handsome appearance . . . that "substantial look" that blends in with nice surroundings—wins friendly acceptance. Neighbors know too that in years to come Clay Brick will stay that way indefinitely. And taxpayers need no reminding that Clay Brick requires no painting, entails practically no upkeep. Firehouse or schoolhouse, factory or store—whatever you're planning—consider the exceptional qualities of Clay Brick.

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NEWS and COMMENT ON ART

ARTISTS INVITED TO SHOW AT ART FESTIVAL

Professional and amateur artists of the San Francisco Bay Area have been invited by Harold Zellerbach, president of the San Francisco Art Commission, to enter their work in the Sixth Annual San Francisco Art Festival scheduled for October 7-12 in the Palace of Fine Arts building in the Marina.

The Festival is open to all painters, sculptors, ceramists, metal-crafters, jewelers, and graphic artists in the nine counties of San Francisco, Alameda, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Sonoma, and Solano. More than 250,000 visitors are expected to attend the Festival.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, under the direction of Water Heil, has scheduled the following exhibitions and events for September:

EXHIBITIONS — Fourth Annual Children's Art Show; the Art of Toony Duquette, includes Paintings, the Theatre, Decor and Jewelry; Oils, Watercolors, Drawings and Etchings, by Leonard Edmondson; Photographs of Italy, by John Bartolino; and Retrospective Exhibition of Paintings, by Karl Zerbe.

EVENTS include Classes for Art Enjoyment, a study of the changing picture of reality; and the Painting Workshop, for adults. Classes are held on Saturdays, Wednesday and Thursday afternoons.

Children's classes are held each Saturday morning (Picture Making), and Elements of Art, Thursday afternoon; and Form in Art and Nature on Fridays after school.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, is offering the following calendar of events for September:

EXHIBITIONS: Contemporary Italian Prints; Nor-

(See Page 32)

SAN FRANCISCO MUSEUM OF ART
War Memorial Building

MERCEDES, gouache

by Charles Howard

Collection of the San Francisco Museum of Art

Gift of William Gerstle

EXTERIOR IS FACED WITH STONE—THE BIG SHINING STEEL LETTERS IDENTIFY THE NEW BUILDING

MODERN ONE STORY BUILDING

UNION CARBIDE and CARBON CORP.

Vernon, California

Architects: McCLELLAN, MacDONALD & MARKWITH

A complete modern one-story building in Vernon, a suburb of Los Angeles, has recently been occupied by six divisions of Union Carbide and Carbon Corporation. Sales offices and warehouses, formerly quartered in four locations in the Los Angeles area, are consolidated in the one new location.

It is on a three and one-half acre, fully landscaped plot and occupies 41,560 square feet. The building, constructed of precast reinforced concrete, is faced with stone.

An air conditioned office area is afforded daylight by a unique patio in the center of the building. Office walls are colorful and floors are covered with asphalt tile. A lunchroom, equipped with range and refrigerating unit, and a paved parking area are available for the use of more than eighty employees.

The warehouse is served by a railroad spur from the Los Angeles Junction Railway. One hundred feet of platform is available for truck shipments.

Construction engineers for the project were Buttress & McClellan, Inc.

Lobby—polished slate floor

Offices border rock garden patio

NEW CONTAINER FACTORY

AMERICAN CAN COMPANY

WILMINGTON, CALIFORNIA

DONALD R. WARREN CO.—Architects & Structural Engineeers

LINDGREN & SWINERTON CO.—General Contractors

The rapid growth of Southern California's vast food packing industry, and promise of an even greater future, was recently dramatized in special ceremonies when the American Can Company's new multi-million-dollar can manufacturing plant constructed in the Wilmington Harbor area of Los Angeles, was thrown open for public inspection during a "Family Night" and open house celebration dedicated to the service of the canning industry.

More than five thousand Southern Californians and company employees, led by T. E. Alwyn of New York City, vice-president in charge of sales; C. W. Roberts of San Francisco, vice-president in charge of the Pacific Division of the American Can Company; R. K. Frederick, manager of the new Wilmington plant, and a distinguished group of governmental, business, and civic leaders, inspected the new factory building and grounds and watched actual demonstrations and production of high-speed assembly manufacturing lines produce round and oval cans for the great fish packing industry of the Pacific Coast which centers in the Southern California area.

Under construction for more than a full year the new factory is a product of the Donald R. Warren Company, Architects and Structural Engineers, Los Angeles office who designed the building, and represents one of the most modern can manufacturing plants in the world. Actual construction work was done by Lindgren & Swinerton Company of Los Angeles, General Contractors. It is the eighth American Can Company plant to be built in California and according to engineers has a rated production capacity of some 350,000,000 containers a year, or more than two cans for every man, women and child in the United States.

There are 259,000 square feet of floor space in the building. General business offices are located at the front, a machine shop has been installed on the left center for maintenance convenience and economy of manufacturing operation. Storage space and shipping facilities have been located in the rear of the structure for quick handling of products; and the large area in the right center has been set aside for machinery and equipment used in actual manufacturing of cans.

Included in the business office area is a fully equipped and staffed medical department for use of employees needing emergency treatment or periodic physical examination. A modern equipped cafeteria has been provided for daily use and is also designed so that it may be used for general employee meetings and a certain amount of recreational activities. Other extensive facilities for employee comfort, welfare, and safety have been provided, as has a large parking lot in an adjacent area which is a great convenience to workers in solving transportation and parking problems.

Fluorescent tube lighting is provided in the cafeteria and over the manufacturing machinery throughout the plant. Other areas have indirect lighting and a great amount of natural daylighting due to the large windows of the building. As an extra precautionary measure to minimize plant accidents, safety guards have been placed around all moving parts of machinery.

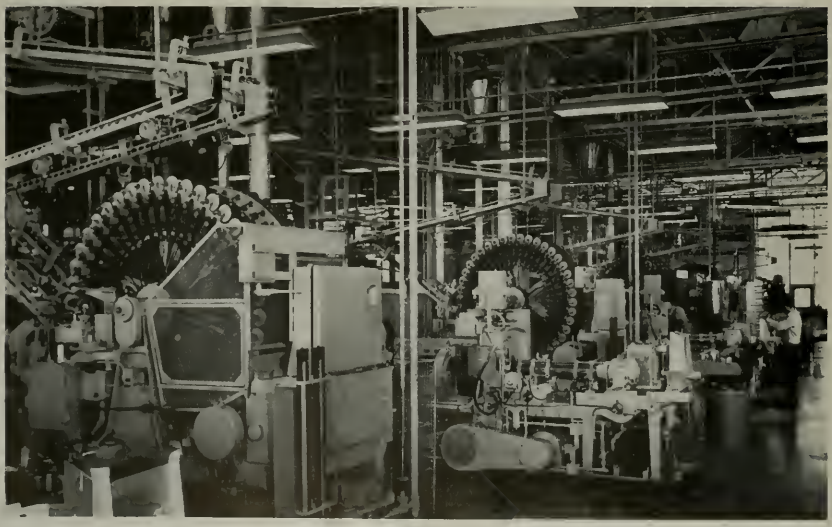
Design of the building provides for a maximum of open-space areas in the manufacturing portion, with a minimum of floor space being devoted to columns and roof supports. The rear storage facilities provide ample room for handling of completed products awaiting shipment to users, and the shipping department is served by a twenty-one car railroad siding and loading platform, and as a convenience to rapid delivery service frequently desired by a customer, a ten truck loading dock has been provided.

The ultra-modern one story Ranch type structure is constructed of reinforced concrete, steel, and decorative brick, with a large "fin" rising over the

FACTORY INTERIOR provides spaciousness and light

MAKING LITTLE ONES OUT OF BIG ONES—Modern slitter machine cuts large sheets of tinplate into "body-blonks" of exact size of the tin cans to be made.

GIANT TESTING WHEELS—Give newly made cans a quick but thorough test. As containers move down runway they are automatically tested by compressed air making sure each unit is satisfactory.



pany of San Francisco, General Contractors, this plant has an annual rated capacity of 350,000,000 fruit and vegetable cans, and represents an important addition to the vital food-packing industry of the Sacramento valley, San Joaquin valley and Delta agricultural districts where some 41,670 farms containing more than 12,170,000 acres are located.

In button-pushing ceremonies that started can production lines officially rolling, State Senator Verne W. Hoffman, recently described the plant as "an important addition to the vital food packing industry" and predicted a "bright future" for the entire region. Herbert L. Lundstrom, manager of the new factory, described some of the techniques of can making and some of the problems faced by the architects and engineers who designed the building.

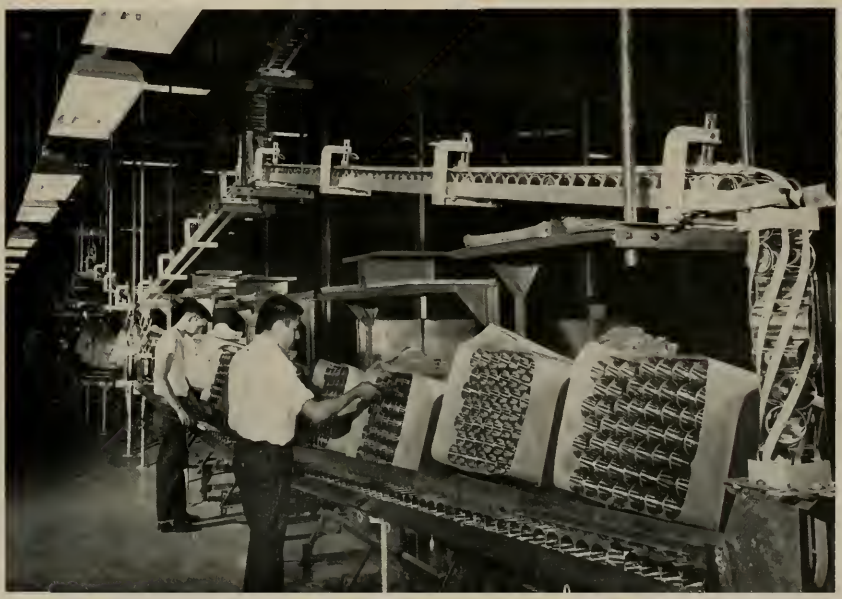
It is the ninth American Can Company plant in California and brings the company's post-war modernization and expansion program in this country, Canada and Hawaii to more than $184,000,000.

The building itself is very similar in design to the Wilmington plant. Constructed of steel, reinforced concrete and decorative brick, the general appearance is that of a one-story Ranch style structure. Wide over-hanging eaves protect large windows from unnecessary sun-glare and also serve as entrance protection during rainy and stormy weather. Decorative brick forms an interesting exterior base-line, and towering high above the building is a huge "fin" which serves as the base for decorative neon lighting and large letters denoting the firm's name.

Some 296,000 square feet of floor space is incorporated in the building and provides for a battery of high-speed, automatic, can making machines, each of which is capable of turning out up to 450 cans per minute. Spacing is arranged so that the tin plate flows continuously from one operation to the next. Tin plate that enters one area, is processed with maximum efficiency until it is finally stored, or shipped, in the form of finished cans. Exposed moving parts of machinery have been screened by mechanical guards and fluorescent lighting placed over each machine.

The streamlined brick and steel factory is situated on a 39 acre site at Highway 50 and South California Street and its business offices and plant are strategically located to serve the canneries of the area.

SPARKLING NEW CANS roll down conveyors of modern Stockton plant.



FULLY EQUIPPED MEDICAL DEPARTMENT — provides for physical examinations and treatment of illness or injury.

SPACIOUS CAFETERIA—is being used here for festivities in conjunction with opening ceremonies of the new plant . . . seats 250 for cafeterio use.

(See lower photo)

In addition to the most modern can production facilities in the world, extensive facilities for employee comfort, welfare and safety have been provided including a cafeteria designed to seat 250 people and which may also be used for company-employee events if desired; special locker rooms for men and women; a fully-equipped and staffed medical department that not only serves for accident-emergency, but also provides ample utility use in conjunction with a company hospitalization plan for employees and dependents; and a spacious parking area.

The shipping facilities include a truck-port and dock capable of handling twenty-six freight cars on three railroad tracks served by two major transcontinental railroads, and eleven trucks, all at the same time.

MODULAR COORDINATION

A Program For Lower Building Costs

An evaluation of the Modular Method, as a feature of the Third National Standardization Conference in Chicago and part of the American Standards Association program in conjunction with the Centennial of Engineering currently being celebrated by the American Society of Civil Engineers, by a panel of experts representing five different branches of the building industry as to its real effectiveness in raising building efficiency was most helpful to those who are encouraging the conversion of the nation's construction industry to this system, according to William Demarest, Jr., secretary for Modular Coordination at The American Institute of Architects in Washington, D. C.

Colonel Willard T. Chevalier, executive vice-president of the McGraw-Hill Publishing Company, acted as moderator of a session devoted to a discussion of the Modular Method as an approach to cost reduction in the building industry, to which the public was invited. The meeting was held in the International Harvester Theater of Chicago's Museum of Science and Industry on September 8th, and was sponsored jointly by The American Institute of Architects, The Producers' Council, and the National Association of Home Builders.

Sufficient experience with the system has already been accumulated, according to the sponsors, to answer such questions as: How Well Does the Modular Method Really Work Out in Practice?, What Possibilities for Better Building Does It Present for the Future?, etc. The panel reporting on these questions included: William H. Scheick, A.I.A., Executive Director of the National Research Council's Building Research Advisory Board, representing building research; architect Gannett Herwig, A.I.A., of Alfred Hopkins and Associates, New York; manufacturer F. M. Hauserman, President of the Hauserman metal partitions company, Cleveland; builder Arthur Bohnen of Chicago's J. L. Simmons Company; and Professor William S. Kinne Jr., A.I.A., of the University of Illinois Architecture Department.

The Modular Method is a simple system of coordinating the designer's dimensions for a building with the actual unit sizes of the materials with which it is to be constructed. A major feature is that it facilitates more thorough pre-planning of a structure by the designer, giving greater construction efficiency on the site. Mr. Demarest's Modular Coordination Office serves as a center of information regarding the Modular Method.

ALASKA DISTRICT CONSTRUCTION

By GIL PEARSON

Technical Information Officer
Anchorage, Alaska

The state of affairs of the defense construction program in Alaska was brought into focus recently by the supervising agency, the Corps of Engineers. In revealing facts and figures for the benefit of businessmen, contractors, and labor, the Alaska District Engineer seeks to establish a common knowledge of the status of the tremendous building program here.

Interviewed at his Anchorage headquarters, Colonel Louis H. Foote was asked questions designed to clear up various erroneous impressions concerning the amount of work now going on. He made detailed replies to the queries of how much of last year's program remains to be accomplished, and what new work can labor and management look forward to.

Of the fiscal 1952 program, the engineer said that fifty-two per cent of the army's projects and seventy-six per cent of the air force's projects have yet to be put under contract. These and other contracts not yet awarded from earlier programs total $100 millions. All are being scheduled on an orderly basis for bid openings on an equal competitive basis to any contractor. This means vast immediate and future opportunities for labor and contractors for the projects are diversified in size, type, and location.

Of the fiscal 1953 program, it was pointed out that there are programed one hundred and twelve projects valued at $132 millions. This construction, like the 1952 program, is spread throughout Alaska with principal quantities at Fairbanks and Anchorage. Again, the work is being scheduled for an orderly call for bids consistent with good management, the interests of the federal government in economy, and the progress of labor-management wage negotiations. It is planned to have all 1953 projects up for bids by next April to be offered from month to month from now through the winter.

It is obvious that the tremendous work schedule underway provides a stimulating challenge to all

(See Page 35)

Aerial photograph by Moulin

UNITED STATES GENERAL SERVICES

ADMINISTRATION WAREHOUSE

South San Francisco, California

WARD & BOLLES
Architects

BARRETT & HILP
General Contractors

Photo by Philip Fein

TIMBER SPAN INSTALLATION

View shows how giant timber spans were used as roof support to provide a maximum of open floor-space area.

Constructed at a cost of more than $2,000,000 the new, modern type, warehouse of the General Warehouse Company of San Francisco, was recently dedicated at public ceremonies in which civic, business, and governmental leaders participated.

The rather unusual type of structure was designed by the San Francisco architectural firm of Ward & Bolles to meet the specific needs of a large general warehouse where quantities of materials could be received from a wide variety of sources, conveniently stored, and easily and quickly reshipped by truck, automobile, rail, and steamship to a number of Federal governmental agencies.

While constructed by Barrett & Hilp, General Contractors of San Francisco, for the General Warehouse Company, the actual occupant of the structure is the U. S. General Services Administration under terms of a "lease-use", therefore facilities had to be provided for handling vast quanti-

AIR VIEW of site location and one stage of construction

ties of a wide variety of items.

General Service Administration officials estimate that more than three quarters of a million dollars worth of U. S. government commodities, including such items as office furniture, food, hardware and fire fighting equipment, will be distributed monthly from the warehouse. This will include servicing more than 321 different ordering offices of Federal agencies in California, Nevada, Arizona, Hawaii, Guam, and Samoa. Similar types of structures are now being built in Seattle, Washington, and Washington, D. C. to serve other areas, and thereby reduce the pressure of such central spots as the South San Francisco warehouse.

The site of the structure is a large area at 1070 South Mateo Avenue in South San Francisco which lies between the Bayshore Highway and El Camino Real, Routes 101. It is adjacent to a well developed residential district, and yet is served by railroad spur trackage and paved boulevard.

The warehouse itself is of a Type "C" construction with an over-all reinforced concrete floor built at car level. The general design comprises an outer appearance of eight major units, all of which appear to be joined together and laid-out in a spread "U"-shape. There has been a complete fusion of connection between the overhead "unit" appearance, however, so the interior of the warehouse presents an unobstructed, wide expanse, of open floor space with a bare minimum of pillars, or supporting columns, necessary to support the roof.

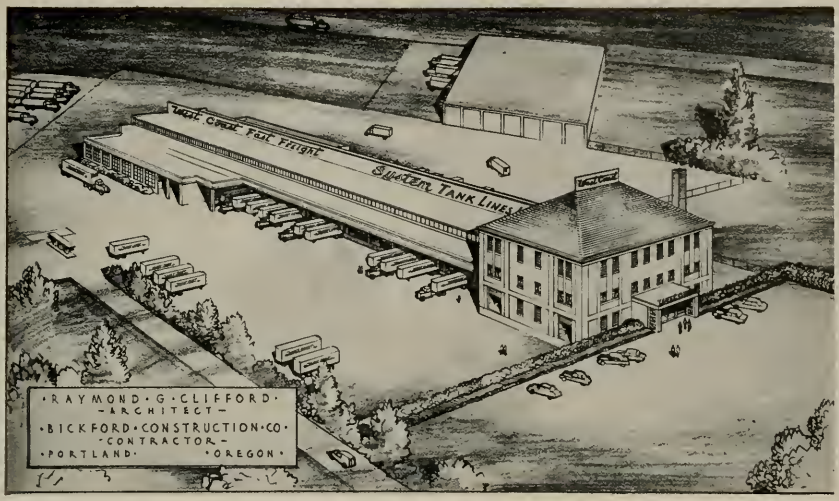
The reinforced concrete walls, which contain large and frequent doorways but no windows, are of the new method "Tilt-up" type construction, wherein the walls, instead of being formed and the concrete poured in the conventional vertical position in place, are formed and the concrete is poured in a horizontal position. The individual sections are then "tilted" into permanent position by heavy lifting construction equipment.

Laminated wood trusses were used almost exclusively throughout. This was done to minimize the use of steel for girders, and roof supports, because of the acute shortage of structural steel and government limitations on use of steel. As a result the wide-arch design of the roof support offers a minimum in floor column obstruction and a maximum utility use of the warehouse area is available.

The large concrete floor, which was poured as one of the initial construction stages, is laid out in squares and covers the entire building area. The flooring also serves as a solid base for the "Tilt-up" walls.

Practical facilities for receiving goods from manufacturers and distributors, and then dispersing to Federal consuming agencies, includes railway loading platforms and a truck and motor vehicle dock.

PRE-CAST tilt-up concrete walls are set on solid base



Artist's sketch of West Coast Fast Freight Terminal building

MODEL OF EFFICIENCY

MODERN FREIGHT TERMINAL

Portland, Oregon

By ARTHUR W. PRIAULX

RAYMOND G. CLIFFORD—Architect

BICKFORD CONSTRUCTION CO.—General Contractors

Completed early last year, the million-dollar motor freight terminal of the West Coast Fast Freight, Inc., constructed in Portland's Guild Lake industrial area, it represents one of the longest buildings constructed in this hustling, growing city in recent years.

Made up of three consecutive units, the structure is 569 feet long and varies in width from 95 feet to 154 feet. The building is believed to have the longest continuous run of clerestory dormer window bays of any building in the Northwest. The bays cover both sides of the single-story part of the building for 504 feet, or 1008 feet of windows.

Architect Raymond G. Clifford of Portland had the problem of combining all known features developed during the past twenty years in other motor freight terminals to get maximum efficiency and freight handling capacity in the available area.

The terminal is composed of three distinct units.

MODERN FREIGHT TERMINAL . . .

UNIQUE
BOW-STRING
TRUSSES

Being lifted into position, cover 504-foot-long freight sheds and garage portion of terminal.

Frame to carry roof and clerestory window bays has been built into truss.

TRUSSES set on cement piers. Terminal has one of the longest buildings ever to be constructed in the Portland industrial district — 569 feet.

A three-story office and security storage building was constructed within the reinforced concrete shell of what was once an incinerator. Adjoining the office section is the cleverly designed transfer dock which is 60 by 312 feet with a twelve-foot over-hang roof on each side of the double opening freight handling dock. The third unit is a repair and maintenance garage 154 feet by 192 feet in size which is a continuation of the transfer dock building.

The freight transfer dock is a model of compactness. It accommodates 52 trucks and trailers at one time and is designed to handle three million pounds of freight daily. Long-distance trucks operate from one long side of the dock and local-haul trucks work from the opposite side.

Architect Clifford kept the design features of the transfer dock relatively simple. Actually this phase of the structure is a long series of identical sections built on a 24-foot module. The 84-foot roof section, which contains the clerestory dormer windows, is supported by a bowstring type truss. A novelty of this truss is an added strut above the top chord which supports the roof framing and shelter for the clerestory sash. The struts are an extension of the bracing in the truss and are actually a part of the truss, being built into the framing. The roof is frame with built up asphalt covering.

The roof over the garage is identical with the truss construction for the dock area, excepting that an additional 35-foot section has been added to each side to serve as equipment stalls on both sides of the main body of the garage. The garage proper has a clear span of 84 feet without a post or obstruction. The garage floor, as well as the raised dock is concrete slab.

The Portland terminal is part of a five-year, $4,000,000 expansion program now underway on the Pacific Coast by the West Coast motor carrier. Cities due for new terminals are Salem and Medford, Oregon; Pasco, Ellensburg and Omak, Wash-

END VIEW of 84-foot truss built with potented ring connectors

ington; Missoula, Montana; Sacramento, Stockton and Fresno, California. A $500,000 depot has also been built at Spokane.

The bowstring trusses are set throughout the 504 feet of the single-story section of the structure at 24-foot intervals. They rest on concrete posts. Approximately a million feet of lumber was used in the trusses, roof sections, window framing and sash and in trim throughout the building. This structure rates well up at the head of the list of buildings erected in recent years for the volume of wood it contains.

One of the problems confronting Architect Clifford was how to get maximum salvage value from the old incinerator building. Center of the structure was taken up with three stories of pipes and machinery, which had to be removed. He has come up with a highly functional office layout in the old concrete shell. The first floor contains general offices for both the West Coast Fast Freight, Inc. northwest offices, in addition to similar accommodations for the System Tank Lines, a subsidiary of West Coast. Second floor was given over to accounting and third floor to security storage. Floors are of concrete covered with asphalt tile. Lighting throughout the building is by direct-indirect incandescent fixtures. Heating by hot water.

The principal problem in design of the main building was to get as much of the working area under shelter as possible without waste. All of the dock area where freight is handled is covered and well lighted. All freight handling and loading is under roof. The twelve-foot overhang takes care of that.

The garage handles general repairs for the entire system, and is one of the most modernly

MORE than one million feet of lumber was used in the building of this terminal. Illustration shows details of raised struts which carry clere-story window bays.

equipped on the Coast, capable of handling any work needed on the big on-highway transport jobs. Trucks and trailers can be spotted in their own individual stall while undergoing repair, and thus kept clear of the central section of the garage.

General construction work was done by Bickford Construction Company of Portland.

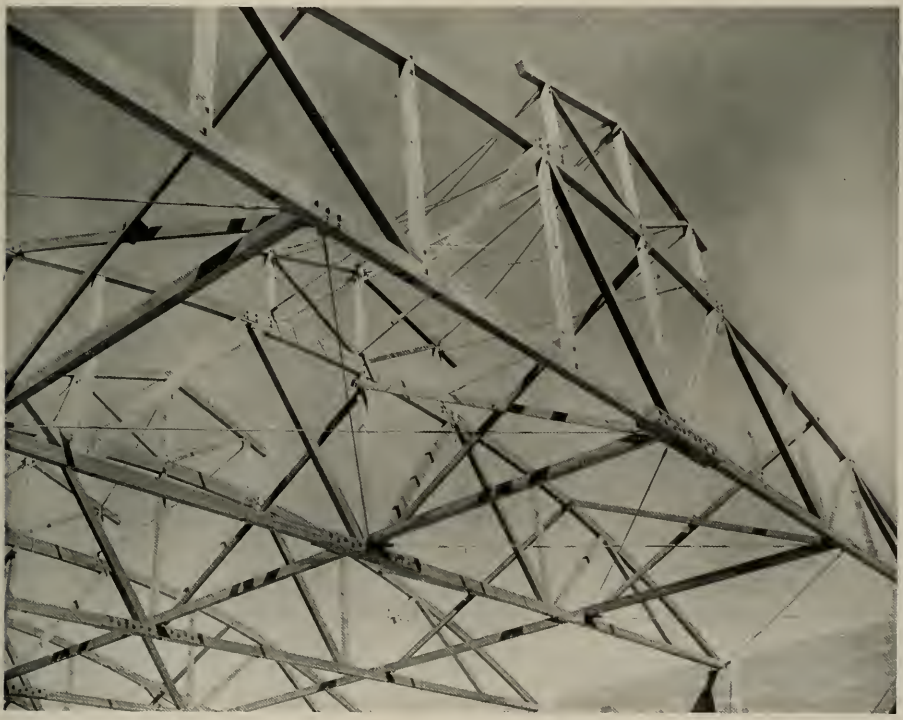
Twenty-six huge highway trucks and trailers can be handled simultaneously on each side of the long dock section. Spacing is such between trucks that freight handlers on the dock can work each truck independently with a minimum of confusion.

The freight terminal has been located in the center of an extensive land area to allow easy access of trucks to and from the structure. A very large apron for truck storage and movement has been built on either side of the building.

This is one of the most modern motor freight terminals in the West, officials of the trucking company have stated. It combines simplicity with functional arrangement. Even though of an unusual size, Architect Clifford was able to design attractive lines and distinction into a building that could easily become just a long pile of lumber.

Cost of this structure was kept down by the manner in which the building has been designed in a series of identical sections. Even though of extraordinary length and size, the structure is actually only a series of 24-foot buildings placed end after end, and all exactly alike.

ANOTHER TYPE of wooden struss which carries posts for clere-story frame are the bow-strings shown here and which are manufactured in Portland. (This photo courtesy Timber Structures. All other photographs by Maurice Hodge.)



ARCHITECTS CONTRIBUTE TO BETTER LIVING

Better peacetime living as well as security against the threat of atomic attack was promised by the American Institute of Architects in a program recommended at the organization's 84th annual convention held recently in New York City, reports Charles O. Matcham, Los Angeles architect and Regional Director of the Sierra-Nevada District of the Institute.

A resolution adopted by the membership called for emphasis on decentralization and dispersal of cities and industries, and a replanning of the central areas of existing cities to relieve congestion and provide better conditions for work and living.

CHARLES O. MATCHAM
A.I.A. Director

The architects advocated strengthening the federal highway program to include urban parkways for relief of urban congestion, to provide park and playground strips, and to provide firebreaks and free circulation for national defense.

The stimulating effect upon construction demand of the nation's population growth was also emphasized. In 1947, for the first time since 1915, the nation's birth rate was over 25 per thousand of population. There had been a marked downward trend in the birth rate from 1915 through 1933, then a moderate increase leading to the spectacular jump in 1947. Since 1947 the rate dropped off somewhat, but was again over 25 per thousand in 1951. "It looks as if postwar parents are going in for larger families. Postwar babies are making their weight count in the American economy," Matcham quoted in summarizing convention reports.

The immediate building program for wartime and postwar babies is a school building program which has already reached boom proportions and promises to continue at a high level for some time. Space and materials conservation in the design of schools received special emphasis at the meeting. Substitution of wood frames, reinforced masonry and other materials for structural steel in architect's new designs has aided the conservation effort.

An example of space conservation practices is offered by the work of California architects where many schools are required by law to meet certain space requirements. The architects have designed classrooms, art and science rooms, administrative rooms and gyms to provide multi-purpose facilities. Time and energy of the school staff are conserved by providing rooms with a minimum of stationary equipment and cabinets, while operating costs are reduced by the use of low-maintenance-cost materials rather than low-first-cost materials. It is important that conservation be approached both from the point of view of initial construction cost and the efficiency of future operation. Extreme operation waste can result from extreme conservation of space and materials in construction, the architects were reminded.

The American people today are also demanding and getting higher quality housing than ever before. For more than a decade they have enjoyed improved diets, better clothing, better shelter and increased numbers of household conveniences and other goods and services. Living standards in the United States are at an all-time peak.

The potentials for further growth and expansion of our economy are such that we may quite possibly have ahead a greater prosperity, with larger annual volumes of construction, than anything the nation has yet experienced, Matcham concluded.

JOINT INFORMATION COMMITTEE

AMERICAN INSTITURE OF ARCHITECTS and THE PRODUCERS COUNCIL, INC.

With this sentence, "The Boards Has Authorized the Department of Education and Research to provide a specification card file reference service, in collaboration with the Construction Specilications Institute," the 84th convention of the A.I.A. in New York City June 23-27, 1952 put in effect the A.I.A. Specification Service that was initiated on the Pacific Coast by members of the Joint Information Committee in San Francisco. This culminates the concerted efforts of the ARCHITECT AND ENGINEER MAGAZINE and many other individuals than those we have mentioned in past articles successfully.

We cannot give full credit to all who contributed to this idea, but we would like to mention the highlights of those who were continuously helpful in attaining this SPECIFICATION SERVICE. Initially Don W. Lyon then with the San Francisco division of Libby-Owens-Ford Glass Company spotlighted the idea in a speech he made at the Producers Council Table Top exhibit in the spring of 1950. Then R. P. Moffett, Perry-Edwards Co., called our attention to the plan for a specification system proposed by F. Bourn Hayne, A.I.A. From this point many various people took part in presenting this idea as ably outlined by Hayne through all the phases needed to bring it to national attention. Wendall Spackman, A.I.A., Frank V. Mayo, A.I.A. past-president of the Northern California Chapter of the A.I.A., Francis J. McCarthy, A.I.A. past-president of the Northern California Chapter of the A.I.A., George E. Conley, Johns-Manville, past-president of the San Francisco Producers' Council to name only a few. For a year the idea formed and called Uniform Specification Procedures progressed through local and national chapters to attain recognition.

It is now almost an established fact as reported in the Boards Report of the annual A.I.A. convention. The text of the A.I.A. SPECIFICATION SERVICE report follows: "The Board has Authorized the Department of Education and Research to provide a specification card file reference service, in collaboration with the CONSTRUCTION SPECIFICATIONS INSTITUTE.

"The 8½" x 11" cards will be indexed according to the A.I.A. Standard Filing System. The content will consist entirely of edited specification data and wording, not advertising or product literature. This material will be edited and coordinated by a professional specification writer added to The Octagon staff, working under the general oversight of the Executive Director and the Department of Education and Research, and an advisory committee of members of the A.I.A. and the Construction Specification Institute.

"As now planned, the first issuance, after a year of work, would comprise approximately 200 general specification cards and, approximately 100 manufacturers, and 50 trade association cards.

"Trade associations and individual manufacturers will pay adequate fees for the inclusion of their material. The Institute membership and others in the profession will receive a descriptive folder with specimen cards and will be invited to subscribe an advance of $10 for the original set and $5 per year for subsequent years' services of additional and revised cards. Advance subscription by 1500 to 2000 architects will be necessary for the inauguration of the Specification Service."

Final establishment of the service and installation of the system for the Architects use will be the accomplishment of a major portion of the idea for Uniform Specification Procedures which will assist the Architect in writing the specification as needed and remove the charges which are constantly made to the effect that his 'Specs' are antiquated, even calling for material no longer in manufacture, etc., etc. The manufacturer will have to meet a new challenge from the Architectural profession and must measure his product installations with these specifications which will be largely of his own design. The ARCHITECT AND ENGINEER MAGAZINE is very gratified in the result of its editorial support to this idea. Particularly do we feel a sense of accomplishment since we were the only architectural publication lending this important plan our whole hearted support.

NOTE: This news space is being contributed by ARCHITECT & ENGINEER Magazine to the JOINT INFORMATION COMMITTEE representing the Northern California Chapter of The American Institute of Architects and the Northern California Chapter of the Producer's Council, Inc., and is available to this Committee for the purpose of bringing to the attention of leaders within the Construction Industry various phases of the Architectural profession and building materials industry procedures for general consideration and comment. Your "ideas" and any suggestions for the better pooling of thoughts along these lines should be sent to "Joint Information Committee, c/o The Architect & Engineer. 68 Post Street, San Francisco," where they will be immediately forwarded to proper committee members.

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NORTHWEST REGIONAL MEETING SCHEDULED

The Northwest Regional Meeting of architects has been scheduled for October 3-4 in the Davenport Hotel, Spokane, Washington.

The two day conference will include a Seminar on Regional Planning at which Roy F. Bessey, Portland, chairman of the Pacific Northwest Field Committee, U. S. Department of the Interior, will talk. Also included in the Seminar will be a talk by Paul Hayden Kirk of the Washington State Chapter, A.I.A., on the subject "Farm in a Day."

Francis Joseph McCarthy, Architect of San Francisco, and member of the A.I.A. Committee on Public Relations, will speak at a Seminar on Public Relations.

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PASADENA ARCHITECT WINS TOP AWARD IN HOME CONTEST

William L. Rudolph, of Pasadena, won top award of $2,250 in a national architectural products, small homes architectural competition, which was sponsored by architectural publications and group of cosponsors.

More than 250 entries were considered by the Jury panel comprising Arthur E. Mann, Whitney R. Smith, Raphael Soriano, A. Quincy Jones, Walter R. Hagedohm, and Arthur B. Gallion, dean of the College of Architecture, University of Southern California.

Rudolph is a member of the firm of Byles, Western & Rudolph, Pasadena.

CALIFORNIA COUNCIL OF ARCHITECTS

A.I.A. President Glenn Stanton of Portland, Oregon, will be one of the principal speakers at the 1952 Annual Convention of the California Council of Architects and Sierra-Nevada Regional Conference in Yosemite Park, October 9, 10 and 11.

The Council has given its endorsement to Proposition No. 2 on the November Ballot. The proposed measure would raise the State support of schools from $120 to $180 per pupil (ADA) per year, and basic aid from $90 to $120 per year. It is designed

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Producers' Council—Northern California Chapter (See Special Page)

also to meet the problem of higher school costs and to balance the load between State and local taxpayers.

Secretary Fred Chase represented A.I.A. architects at the recent special session of the State Legislature, explaining to many legislators and allied interests the position of the individual architect in relation to school work.

SOUTHERN CALIFORNIA CHAPTER

James Mussatti, general manager of the California State Chamber of Commerce, spoke at the August meeting on the subject of "Our American Heritage." Prior to assuming the duties of general manager for the Chamber of Commerce, Mussatti was executive secretary of the California Taxpayers Association and an Instructor in American History at the University of Southern California.

Appearing on the same program was Samuel Leask, Jr., City Administrator of Los Angeles. His subject was "Office of City Administrator." Leask was formerly a member of the California Unemployment Reserves' Commission; a member of the Advisory Council U. S. Employment Service; and Southern California Director for the Office of Price Administration.

WASHINGTON STATE CHAPTER

The first meeting, following the summer vacation, was held in the Sorrento Hotel, Seattle, on September 4th, with a number of committee reports and Executive Board reports.

The Ways & Means Committee, under chairman Lawrence G. Waldron, and the Program committee under the chairmanship of Talbot Wegg, outline extensive activities for the ensuing months.

John D. Spaeth, Jr., Director of Planning, spoke on the Off Street Parking Ordinance which has been proposed for adoption in Seattle.

Waldo B. Christenson, chairman of the A.I.A.

(See Page 32)

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WITH THE ENGINEERS

Structural Engineers Association of California
Donald F. Shugart, President; Walter A. Buehler, Vice-President; Lewis K. Osborn, Sec.-Treas.; Office c/o Kistner, Curtis & Wright, Room 203 Architects Bldg., Los Angeles. Directors Arthur W. Anderson, John E. Rinne, Henry J. Degenkolb, Lewis K. Osborn, Ernest C. Hillman, Jr., R. W. Binder, Donald F. Shugart, Walter A. Buehler, and G. E. Goodall.

Structural Engineers Association of Northern California
John J. Gould, President; G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Ass't. Sec.; Wm. K. Cloud, Ass't. Treas.; Directors Robert P. Dalton, John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick. Sec. Office, 417 Market St., San Francisco.

Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

The subject "Earthquake at Tehachapi" was highlighted at the September meeting with discussions by Karl V. Steinbrugge of the Pacific Fire Rating Bureau; Henry J. Degenkolb with John J. Gould, Consulting Engineer; Steve Barnes, Structural Engineer of Los Angeles; and William K. Cloud of the U. S. Coast & Geodetic Survey.

A great deal of information has been gathered relative to the recent earthquakes in the lower San Joaquin Valley and Southern California, and it was pointed out that building codes and future structures will be benefited by current engineering studies being made.

W. K. Cloud has been appointed Treasurer, succeeding the late Franklin P. Ulrich who served in that capacity for 13 years.

The October meeting will be held in Berkeley with C. Earl Webb, Chief Engineer of The American Bridge Company speaking on "Trends in Structural Engineering." University of California engineering students will be invited to attend.

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ENGINEERS MAKING STUDY OF LOS ANGELES SHAKES

The Seismology Committee of the Structural Engineers Association of Southern California is making an extensive survey and study of the effects of the recent earthquakes in southern California on existing structures.

Committee Chairman R. W. Binder, 348 N. Ridgewood Pl., Los Angeles, is urging all engineers to send in information available on building vibration and effect on structure in general.

Results of the Committee study will be compiled and made available for future use.

AMERICAN SOCIETY OF CIVIL ENGINEERS

The San Francisco Section of the American Society of Civil Engineers recently heard Ray W. Carlson, Consulting Engineer of Berkeley, discuss the subject of "Atomic Bomb Tests and Structure Instrumentation."

Carlson worked on development of the A-Bomb at Los Alamos, New Mexico, during World War II, and since that time has devoted much time to both the testing of structures subjected to A-bomb blast and the development and perfection of devices for the direct measurement of stresses.

STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA

Ben Benioff, General Chairman of the Annual Convention of the Structural Engineers Association of California, scheduled to be held in Riverside on

Structural Engineers Association of Southern California

Harold P. King, President; Ben Beniaff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Directors Harold P. King, Ben Benioff, Donald F. Shugart, Wm. T. Wright, Wm. T. Wheeler, Henry M. Layne and Joseph Sheffet. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices. L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Haopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strang, CE, USA; and J. G. Wright directors.

October 16-17-18, reports a large number of advance reservations have been received, and urged those planning on attending the Convention to send their reservations in at once.

President Donald F. Shugart has announced a number of outstanding national speakers have been scheduled for the Convention and that the subjects under discussion will be of extreme importance to the Engineering profession. Complete details will soon be announced.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

The September meeting was devoted to a discussion of "The Arvin Earthquake" with a panel of six speakers relating their personal observations of the effects of the recent earthquakes.

Those taking part in the discussions included G. W. Housner, P. E. Jeffers, D. F. Moran, E. C. Hillman, Jr., D. F. Shugart, S. B. Barnes and Murray Erick.

R. W. Binder, Chairman of the Seismology Committee served as moderator and subjects discussed included Instrument Analysis, Tunnels and Farm Lands, Elevated Water Tanks, Bakersfield and Arvin, Santa Barbara, Statler Hotel (Los Angeles), and the Prudential and General Petroleum buildings in Los Angeles.

New members include Pecos Calahan, Associate; and Louis Molnar, member.

AWARDED RECOGNITION BY PROFESSIONAL ENGINEERS

Dr. David B. Steinman of New York City, builder of bridges on five continents, has received the second award ever given by the National Society of Professional Engineers for distinguished service to the engineering profession.

The first award was made to Herbert Hoover in 1949.

Dr. Steinman's first fee as a consulting engineer was $5.00, yet within six months he had been hired to build the Florianapolis Bridge in Brazil, the largest bridge in South America. Other famous bridges he has built include the Henry Hudson Bridge, the St. John's Bridge in Portland, Oregon, the Thousand Ilands Bridge, the Sky Ride at the Chicago World's Fair, the renovation of the Brooklyn Bridge, the Mount Hope Bridge in Providence, R. I., and hundreds of others. He has been retained to construct the Straits of Messina Bridge between Sicily and the mainland of Italy.

FEMINEERS

The regular August meeting of the "Femineers" was held in the Elks Club of San Francisco and

(See Page 31)

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INFORMATIONAL MEETINGS

On August 4, The Armstronog Cork Company presented an informational program entitled "How to Select an Acoustical Material."

It was pointed out to us that the co-efficient of efficiency assigned to the various acoustical materials on the market today is not the only basis of selection for the application of these materials. These co-efficients are not intended to indicate that one material is better suited than another for a particular job for the co-officient is actually the average of the material's ability to absorb the entire range of sounds in the auditble frequencies.

We were advised that the selection of an acoustical material should be based upon the material's ability to provide acoustical correction for a definite sound range and that the initial cost of the material and installation should be given consideration along with the material's appearance, fire resistance, light deflection, maintenance, and moisture resistance.

At our regular monthly information meeting on October 6 at the Palace Hotel in San Francisco, a co-sponsored program entitled "Daylight in School Design" will be presented by the Detroit Steel Products Company and Libbey-Owens-Ford Glass Company.

These two companies have, for several years, been sponsoring an intensive research study on classroom daylighting at Southern Methodist University, Dallas, Texas.

The results of these studies and intensive research will be presented by R. L. Biesele, Jr., formerly Research Professor of Engineering at S.M.U. The speaker, who has also made extensive field studies throughout the United States and a special study of California school design, is nationally known for the lucid and highly illustrated character of his presentations.

Biesele is a National Director of the Illuminating Engineering Society, a member of its committee on School Lighting and Daylighting and is Chairman of the latter committee. He is also a member of the National Society of Professional Engineers, the American Institute of Electrical Engineers, and the U. S. National Committee of the Commission International d'Eclairage. He is a Registered Professional Engineer and has served as a consultant to numerous school systems and architects.

Architects who are interested in attending this luncheon meeting should phone Douglas 2-0890, or Sutter 1-4360.

SPORTSMAN'S PROGRAM AND SPORTSMAN'S DINNER AT YOSEMITE

The two chapters of the Producer's Council are again sponsoring the coordinated sporting events between the Architects and Producers at the Architect's Annual Convention at Yosemite. The members of the Producer's Council, with the assistance of Al Thomas, Architect of Sacramento, will be in charge of the individual contests. The Producers selected to handle the various activities are as follows:

Tennis—Paul Wagner, Armstrong Cork Company
Baseball—Harris Wilkinson, Pittsburgh Plate Glass Company
Pitch & Putt—Hillman Hudson, Vermont Marble Company
Ping Pong—Phil Mittel, Otis Elevator Company
Golf—Bob Dumesnil, The Brookman Company, Inc.
Horse Shoes—Lloyd Cramer, Westinghouse Electric Corp.
Croquet—Phil Brown, Otis Elevator Company
Cards—(Bridge and Canasta), Betty June Cowley

The annual sportsman's dinner featuring the awards to the winners of the sporting contests will highlight the close of the convention and will be sponsored by the two California Chapters of the Producers' Council.

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WITH THE ENGINEERS

(From Page 29)

was devoted to a Card Party with prizes being awarded to high scores in Bridge and Canasta.

Mrs. Eric Moorehead was hostess of the day, with Mrs. August Waegemann in charge of reservations.

The Femineers is an organization comprising wives of members of the American Society of Civil Engineers and Structural Engineers Association of Northern California.

AMERICAN SOCIETY OF MILITARY ENGINEERS—SAN FRANCISCO POST

Colonel Fremont S. Tandy, E. Engineer III Corps, Ft. MacArthur, California, was the principal speaker at the September meeting held in the Presidio Officers' Club, San Francisco.

Col. Tandy spoke on "Engineering Operations In Korea" and gave a very interesting and informative description of Army activities in Korea. He activated and trained the 32nd Engineer Construction Group at Camp Carson, Colorado, and took it to Korea in 1951 where he served as its Commander.

A number of photographs were shown in conjunction with Col. Tandy's comments.

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AMERICAN SOCIETY FOR TESTING MATERIALS

The American Society For Testing Materials has scheduled two important conferences for the Pacific Coast during November, according to an announcements from Society headquarters in Philadelphia, Pa.

The first meeting will be held during the week of November 17th in Los Angeles and will be sponsored by the Southern California District ASTM; the second conference, sponsored by the Northern California District ASTM, will be held during the week of November 25th in San Francisco.

ASTM officials urge all persons interested in the work of the Society to attend either or both of these West Coast conferences.

NEWS & COMMENT ON ART

(From Page 6)

wegian Print Makers; American Vanguard for Paris, an American Federation of Arts Exhibition; Rental Gallery; 16th Annual Watercolor Exhibition of the San Francisco Art Association; Standards of Illustration in Children's Books; and Drawings of Korea by Roger Stringham.

EVENTS will include Sunday Lectures at 3 o'clock—Approaches to Creative Painting—Ferren and Franck, by Barbara Fitzwillians; Contrast and Comparison in European Prints, by Anneliese Hoyer; The New Look in Watercolors, by Lare Oppenheimer; and What Do Children Like in Illustration, by Anneliese Hoyer.

The Wednesday evening 8 o'clock lectures will include Gropius Designs for Living, by Lare Oppenheimer; Trends in Watercolor Paintings, by Barbara Fitzwilliams; Freedom of Expression in Watercolor Painting, by Barbara Fitzwilliams; and American Vanguard — Imagination and Experiment, by Lare Oppenheimer.

A Tour has been arranged by the Women's Board of the Museum for Wednesday afternoon, October 1.

Art For the Layman classes will be resumed: Studio, September 16; Sketch Club and Painting Classes, September 19; and Children's Saturday morning Classes, September 20.

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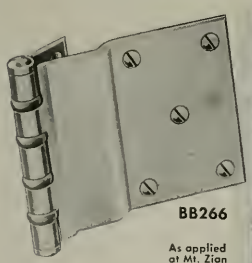

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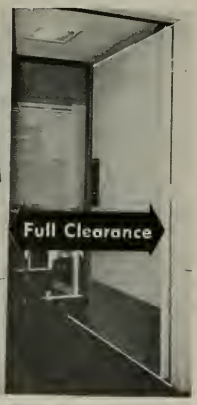

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CITY OF PARIS

The Rotunda Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, is offering a special showing of Textiles by Scalamandre. These are the same materials used in remodeling of the Presidential Mansion in Washington, D. C.

Also shown during the month is an Exhibition of Oils and Watercolors by Grau Sala, and a group of Oils by a number of French painters including Bombois, Brandel, de Botton, Broders, Florquin, Gall, Laville, Serveau, de Tessan, and Venard.

A.I.A. ACTIVITIES

(From Page 27)

Convention which will be held in Seattle next summer, reported indications already point to a record attendance by architects from all parts of the world.

The Bowling League began its sixth session September 3rd, under the guidance of Arnie Gangnes and Richard Parker.

New Members. Charles A. Baylon and Nathan Wilkinson, Jr., Corporate Members; and reinstatement of William A. Trimble as Corporate Member upon his return to the Chapter following residence elsewhere. Associate Members newly affiliating include Leonard G. Nash, Dwight R. Butterfield, and John C. Bryant, Jr., Junior Associates.

SAN DIEGO CHAPTER

"Founders Night" was observed on August 20th with the meeting being devoted to "Old Timers" in the Chapter and area. A good turn-out enjoyed the evening and a number of important business items were transacted during the business portion of the meeting.

Jack Lewis has been appointed to serve as a

member of the California Council By-Laws Committee, and Louis Bodmer has been named to the Fees Committee.

NORTHERN CALIFORNIA CHAPTER

Dr. Charles W. Bursch, Chief of Division of School House Planning, California Department of Education, was the principal speaker at the August meeting. He spoke on "Twenty-five Years of Cooperation with the Architects" in planning the schools of California and discussed many phases of the present problems facing school officials including the current State Aid Program.

John Ekin Dinwiddie, Chairman of the Committee on Activities, announced the Chapter would participate in the Annual San Francisco Art Festival to be held October 7-12, in the Palace of Fine Arts Building, San Francisco; the Honor Awards Program, to be held next Spring; and the Marin Art & Garden Show, which is also scheduled for July of next year.

HELD OPEN HOUSE

The San Francisco Architectural Club held an Annual Open House on Friday evening, September 12th. This year's event was in conjunction with the opening of new quarters at 507 Howard Street.

ORANGE COUNTY CHAPTER A.I.A. ORGANIZED

The National Board of the American Institute of Architects has approved formation of the Orange County (California) Chapter of the A.I.A.

The new Chapter will make the 10th chapter of the A.I.A. in the state and will start with a membership of twenty architects.

William E. Blurock of Corona del Mar, is president; George T. Lind of Balboa, secretary; and Paul O. Davis, Los Angeles and Corona del Mar, treasurer.

ARCHITECT PAUL THIRY ON CITY PLANNING COMMISSION

Mayor Allan Pomeroy of Seattle, Washington, has appointed Architect Paul Thiry to membership on the City Planning Commission for a three year term.

Also serving on the Commission is J. Lister Holmes, Architect.

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OREGON CHAPTER

In conformity with the usual procedure of A.I.A. Chapters throughout the nation, the annual election of officers and directors for the Oregon Chapter was held during June with the following elected for the ensuing year:

H. Abbott Lawrence, President; Holman J. Barnes, Vice-president; Donald W. Edmondson, Secretary; and Robert W. Fritsch, Treasurer.

Regular monthly meetings were resumed in September, following the usual summer vacation. Consideration was given the Chapter's participation in the national convention in Seattle next year.

NORTHERN CALIFORNIA CHAPTER AIA PLANS HONOR AWARDS

Officers and directors of the Nothern California Chapter of The American Institute of Architects have announced plans for holding a 1953 Honor Awards Competition.

The event will be open to members of the Northern California Chapter, East Bay Chapter, and the Coast Valleys Chapter, A.I.A.

Entries are to be submitted on 40 in. x 40 in. masonite panels for judgment by a jury of nation-

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WE ARE SORRY!

In the July issue of ARCHITECT & ENGINEER magazine the article and photographs devoted to modernization of SAKS FIFTH AVENUE store, San Francisco, failed to disclose the fact that the veneer material used on the exterior (See photograph, Page 19, July A&E), was Ceramic Veneer designed and manufactured by GLADDING, McBEAN & CO. to meet the specifications of Adam L. Gimbel, president of Saks Fifth Avenue and architects Burke, Kober & Nicolais of New York.

Gladding, McBean & Co's Ceramic Veneer "completed an exterior remodel in full harmony of the decor of the original Saks Fifth Avenue store in New York," president Gimbel reported recently to Ray H. Brown, sales manager of Architectural Products for Gladding, McBean & Company, San Francisco.

Also in the same issue the name of the Architect designing the new Garden Bank in San Mateo for the American Trust Company was inadvertently misspelled—it should have appeared as W. D. PEUGH, Architect.

The Editor

ally known architects. Honor awards will be presented to examples of outstanding architectural design in sixteen catagories, including residences, schools, churches, hospitals, office buildings, commercial, and industrial.

Following judgment an Awards Dinner will be held in San Francisco and the exhibit will be scheduled for showing throughout major cities of the country.

Charles Pope, William Corlett, and Donald Emmons head the committee organizing the event.

ARCHITECT SELECTED ON CITIZENS COMMITTEE

Donald Beach Kirby, A.I.A. architect of San Francisco, has been named Chairman of a Citizens Committee to conduct a state-wide campaign in favor of the $15-million bond issue which will be submitted to voters of California on the November ballot

Others serving on the Executive Board include Henry Wright, H. C. McGinn, Joseph C. Burr, and Hal Reynolds.

ARCHITECT MOVES

The architectural offices of Earl Heitschmidt, A.I.A., have recently been moved to 2010 Wilshire Blvd., Los Angeles 5, California.

Whiting S. Thompson, A.I.A., architect, is associated in this office.

ALASKA CONSTRUCTION

(From Page 15)

concerned, for the Alaska defense construction program is undisputedly undergoing its greatest growth now. Construction resulting from awards of contracts under the present schedule is vast, varied, and constant. New projects are plentiful and work for many trades is abundant. The facts show a bright picture which provides a positive impact on local economy. Colonel Foote said that since the start of the current defense construction in Alaska in 1949, 117 contracts have been completed under supervision of the Corps of Engineers and then turned over to the using agencies which are U. S. Army, Air Force, and the Alaska Communications System. The completed projects, jobs now underway, and those to be put under construction embrace a wide area throughout the territory and are locally supervised by resident field offices at Haines, Elmendorf, Ft. Richardson at Anchorage, Ladd-Eielson at Fairbanks, Whittier, Nome, Kenai, Big Delta, and at other locations.

There are now eighty defense construction jobs underway throughout Alaska. Forty-one of them require from twenty-five to ninety per cent additional progress before completion.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

ART IN MODERN ARCHITECTURE. By Eleanor Bittermann. Reinhold Publishing Corpn., 330 W. 42nd St., New York. Price $10.00.

Art in Modern Architecture is the first book to thoroughly present American architectural art, murals, architectural sculpture, and stained and carved glass, and plastics. Since the field has never been thoroughly explored before, the Author presents a very necessary contribution to the knowledge of the surprisingly large range of American architectural art.

More than 300 examples are well illustrated and all are shown in situ so that the relation between art and architecture is clearly expressed, and the book is a factual report of existing work. Many of the examples contained are discussed by the artists and architects themselves. In addition to the artists' texts, the author discusses history, problems, trends, influences, materials, techniques, and future possibilities for art in architecture.

The author, Eleanor Bittermann, is a Phi Beta Kappa graduate of the University of Washington, and her thorough knowledge of research techniques have made this extensive, careful presentation of American architectural art possible.

TECHNIQUES OF PLANT MAINTENANCE—1952. Published by Clapp & Polick, Inc., 341 Madison Ave., New York. Price $6.00.

A detailed report of the proceedings of the Technical Sessions, sponsored by the American Society of Mechanical Engineers and the Society for the Advancement of Management, held concurrently with the Third Plant Maintenance Show in Philadelphia.

It is the complete transcript of formal papers delivered at the conference and includes also the questions put to speakers and answered by them on the platform. Many graphs, scales, drawings and charts are included in the text.

AUGUSTE PERRET. A Partial Bibliography. By George E. Pettengill. American Institue of Architects, Washington, D. C. Price $1.00.

The author, George E. Pettengill, is the librarian for The American Institute of Architects, Washington, D. C., and has compiled this bibliography primarily to secure data as to sources of information on Auguste Perret in connection with the award by The American Institute of Architects of its Gold Medal to Monsieur Perret.

The references are arranged in broad groups such as Writings, Book References, Biography and Criticism, Honors, Reinforced Concrete, Miscelltany, Major Works, Other Buildings, and Projects.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

406. AIR ENTRAINING AGENT FOR CONCRETE. A new folder describing the advantages of using Vinsol air-entraining agent in concrete is available from Hercules Powder Company. The folder briefly lists the advantages of air-entrained concrete and the methods employed in its production. The use of neutralized Vinsol solution is covered in a series of questions and answers. The leaflet points out that although Hercules does not supply solutions of neutralized Vinsol, these solutions can be obtained from numerous companies in all parts of the country. A list of these suppliers is included in the leaflet. F400, 4 pages, 6/52.

407. FACTS ABOUT RUBBER FLOORS. This booklet is published as part of a new educational program being conducted by the Rubber Flooring Division of The Rubber Manufacturers Association, Inc., to inform architects, interior decorators, homeowners and others about the advantages of modern rubber flooring. This is intended as a non-technical reference book for those who have an interest in building, interior decoration and the flooring business. In it will be found a brief description of the features of rubber flooring, how it is made, information on installations and recommendations for proper maintenance. 15 pages, illus., 8/52.

408. METAL LATH AND FIRE RESISTIVE RATINGS. Eighty-five different types of fireproof constructions are described in the recently released Summary of Metal Lath and Plaster Fire Resistive Ratings. The four page publication summarizes years of fire testing. It includes fire protection information for steel columns, girders and trusses, joists, floors and partitions. This somprehencive test data will be a valuable addition to any engineers, architects, building officials or contractors office. 4 pages, 8/52.

409. AIR FLOW CONVECTORS. A new, easy-to-use catalog on U.S. AirFlow Convestors is announced by W. C. McCord, President of United States Radiator Corporation. The new catalog is available to heating contractors, wholesalers, architects, builders, and heating engineers without charge. All necessary information for calculation and roughing-in of convector installations is contained in the catalog, including ratings, dimensions, and technical data. Each type of convector is fully illustrated, including exploded views to show the interior construction. AR 327, 16 pages, illus., 6/52.

410. ROKADA HEAVY DUTY INDUSTRIAL FLOOR. Available from the LeRoy Olson Company is a set of specifications and product description in leaflet form covering the ROKADA HEAVY DUTY INDUSTRIAL FLOOR. The properties of the material and the purposes of the floor are carefully outlined as well as the type of service this type floor is expected to meet. The Rokada Flooring is described as meeting the specifications of the Oxychloride Cement Association and resisting compression to 9,000 lbs. per square inch. A.I.A. 23-D, 20 pages illus., 9/51.

411. PRECAST FLOOR AND ROOF SLABS. A single sheet covering the development of an unusual new school. The inovation consists of the exterior walls formed with the short dimension of the classrooms, daylight source on two sides of every classroom, and economy of construction. Economical features are described as lower original construction cost, reduced maintenance costs, and reduced heating loads. A.I.A. 4-K, 1 page illus., 5/52.

412. FRAMING ANCHORS FOR JOIST HANGERS. Instructions on the use of Trip-L-Grip framing anchors as joist hangers are detailed in a new folder being distributed to architects and home builders by Timber Engineering Company, affiliate of National Lumber Manufacturers Association. Although the anchors are designed for all secondary connections in wood frame construction, they have their largest use as joist hangers because of resultant economics in time, labor, materials and space. They are adjustable, on the job, to joists of uneven width and depth, and can be applied before installation. They eliminate ledger strips and all notching, fitting and shimming of joists, and do away with old-fashioned toenailing of other connections. An increasing use of these framing anchors is in clear span construction with trussed rafters. By placing the anchors in position on the plate in advance, the trussed rafters are erected more quickly and easily. Detail drawings of other uses of the anchors are included in the folder. 4 pages, illus., 6/52.

413. WINDOW GLAZING WITH PLEXIGLAS. A new booklet gives detailed information, in text and illustration, on glazing industrial and other buildings with flat panels of the acrylic plastic Plexiglas. The booklet is written for plant maintenance engineers, architects, and maintenance superintendents of office buildings and schools, who are confronted with frequent breakage of windows, or other glazing problems which involve high labor costs. The booklet recites properties and behavior of this plastic sheet, and gives detailed data on installation methods and methods of cleaning. Two full pages are devoted to 12 detail drawings which show how to install the shatter-resistant plastic in wood and metal sash. Tables list percentages of solar heat and visible light transmitted, and recommended thickness for lights of various sizes. A.I.A. 26-A-1, 16 pages, illus., 7/52.

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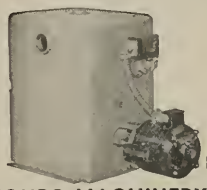

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PACIFIC PORTLAND CEMENT

A current advertising schedule by Pacific Portland Cement Company and Ideal Cement Company outlines the recent affiliation of Pacific with Ideal.

The joining of Pacific, as a subsidiary, and Ideal brings together two of the nations oldest cement manufacturing companies. Pacific is now in its 50th year, and Ideal has passed the half century mark in serving western building.

Pacific, with three mills, serves California and Oregon, and Ideal, with general offices in Denver, Colorado, serves 22 states.

AMERICAN SOCIETY FOR TESTING MATERIALS

The American Society for Testing Materials, at its recent annual meeting in New York City recently, selected ten technical leaders in the field of engineering materials for receipt of the Society's Award of Merit.

Of the ten men so selected, one was from the Pacific Coast.

F. D. Tuemmler, head of the Analytical Standardization Department of the Shell Development Company, Emeryville, California, was awarded an Award of Merit for "Significant and valued service, particularly in the work of Committee D-2 on Petroleum Products and Lubricants," and in the coordination of that work with other ASTM committees.

Elected to serve as president for the following year was Dr. Harold L. Maxwell, Supervisor of Mechanical Engineering Consultants, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. Other officers chosen in cluded Norman L. Mochel, manager Metalurgical Engineering, Westinghouse Electric Corpn., Philadelphia; and directors George R. Gohn, New York; William H. Lutz, Buffalo; Howard K. Nason, St. Louis; Adolph O. Schaffer, Nicetown, Pa.; and Myron A. Swayze, New York.

MODULAR COORDINATION FOR LOWER BUILDING COSTS

The Modular Coordination Office of the American Institute of Architects indicates the educational activities of the group during the coming year will include consideration of a directory of Modular-size building products.

Modular Coordination is a system of coordinating the designer's dimensions for a building with the actual size units of the materials with which it is to be constructed. The program is a joint effort of The American Institute of Architects, the American Standards Association, The Producers Council, the National Association of Home Builders, and the Housing and Home Finance Agency of the government.

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

PRICES GIVEN ARE FIGURING PRICES AND ARE MADE UP FROM AVERAGE QUOTATIONS FURNISHED BY MATERIAL HOUSES TO SAN FRANCISCO CONTRACTORS. 3% SALES TAX ON ALL MATERIALS BUT NOT LABOR

All prices and wages quoted are for San Francisco and the Bay District. There may be slight fluctuation of prices in the interior and southern part of the state. Freight cartage, at least, must be added in figuring country work.

BONDS—Performance or Performance plus Labor and Material Bond(s), $10 per $1000 on contract price. Labor & Material Bond(s) only, $5.00 per $1000 on contract price.

BRICKWORK—MASONRY—

Common Brick—Per 1 M laid—$100.00 up (according to class of work).
Face Brick—Per 1 M laid—$200.00 end up (according to class of work).
Brick Steps—$3.00 and up.
Common Brick Veneer on Frame Bldgs.—Approx. $1.20 and up—(according to class of work).
Face Brick Veneer on Frame Bldgs.—Approx. $2.00 end up (according to class of work).
Common Brick—$36.00 per M—truckload lots, delivered.
Face Brick—$81.00 to $106.00 per M, truckload lots, delivered.
Glazed Structural Units—
Clear Glazed—
2 x 6 x 12 Furring ..... $1.60 per sq. ft.
4 x 6 x 12 Partition ..... 1.90 per sq. ft.
4 x 6 x 12 Double Faced Partition ..... 2.25 per sq. ft.
For colored glaze add ..... .30 per sq. ft.
Mantel Fire Brick—$105.00 per M—F.O.B. Pittsburgh.
Fire Brick—Per M—$111.00 to $147.00.
Carteg—Approx. $10.00 per M.
Peving—$75.00.
Building Tile—
8x5½x12-inches, per M $139.50
6x5½x12-inches, per M 105.00
4x5½x12-inches, per M 84.00
Hollow Tile—
12x12x2-inches, per M $146.75
12x12x3-inches, per M 156.85
12x12x4-inches, per M 177.10
12x12x6-inches, per M 235.30
F.O.B. Plant

BUILDING PAPER & FELTS

1 ply per 1000 ft. roll $5.30
2 ply per 1000 ft. roll 7.80
3 ply per 1000 ft roll 9.70
Brownskin, Standard 500 ft. roll 6.85
Sisalkraft, reinforced, 36 in. by 500 ft. roll 7.00
Sheathing Papers—
Asphalt sheathing, 15-lb. roll $2.00
30-lb. roll 2.79
Dampcourse, 216-ft. roll 2.95
Blue Plasterboard, 60-lb. roll 5.10
Felt Papers—
Deadening felt, ¾-lb., 50-ft. roll $3.23
Deadening felt, 1-lb. 3.79
Asphalt roofing, 15-lbs. 2.00
Asphalt roofing, 30-lbs. 2.79
Roofing Papers—
Asphalt Rfg., 15 lb. $2.09
Standard Grade, 108-ft. roll, Light 1.87
Smooth Surface, Medium 2.18
Heavy 2.56
M. S. Extra Heavy 2.96

BUILDING HARDWARE—

Sesh cord com. No. 7 ..... $2.65 per 100 ft.
Sesh cord com. No. 8 ..... 3.00 per 100 ft.
Sesh cord spot No. 7 ..... 3.65 per 100 ft.
Sesh cord spot No. 8 ..... 3.35 per 100 ft.
Sesh weights, cast iron, $100.00 ton.
1-Ton lots, per 100 lbs. $3.75
Less than 1-ton lots, per 100 lbs. $4.75
Nails, per keg, base $11.80
8-in. spikes 11.80
Rim Knob lock sets 1.80
Butts, dull brass plated on steel, 3½x3½ ..... .76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.31	2.90
River Sand	2.50	3.00
Sand—		
Lepis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—
Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.
Per Sack, small quantity (paper) $1.05
Carload lots, in bulk per bbl. 2.79
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Medusa White: 1 to 100 sacks, $3.13 sack warehouse or del.; $9.56 bbl. carload lots.

CONCRETE READY-MIX—

1-2-4 mix, to 10 yards* $12.00
10 to 100* yards 11.00
100 to 500 yards 10.50
Over 500 yards 10.30
* Delivered to site.

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches each	$ .17	$ .18
6x8x16-inches, each	.22	.225
8x8x16-inches, each	.26	.26
12x8x16-inches, each	.34	.39
12x8x24-inches, each	....	.60

Haydite Aggregates—
¾-inch to ⅜-inch, per cu. yd. $7.25
⅜-inch to ⅛-inch, per cu. yd. 7.25
No. 6 to 0-inch, per cu. yd. 7.25

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock, will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$1.50 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.
Hardwood Flooring—

Oak Floor...g—T & G—Unfin.—

	⅝x2¼	½x2	⅜x2	Ax2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standerd
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅝ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

⅝ x 2¼ First Grade	$390.00
⅝ x 2¼ 2nd Grade	365.00
⅝ x 2¼ 2nd & Btr. Grade	375.00
⅝ x 2¼ 3rd Grade	240.00
⅝ x 3¼ 3rd & Btr. Jtd. EM	380.00
⅝ x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer' Wage $2.50 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.35 per □ ft.
¼ in. Rgh. Wire Gless	.71 per □ ft.
¼ in. Polished Wire Plate Glass	2.00 per □ ft.
¼ in. Rgh. Wire Gless	.64 per □ ft.
⅛ in. Obscure Gless	.40 per □ ft.
32 in. Obscure Gless	.64 per □ ft.
⅛ in. Heat Absorbing Obscure	.58 per □ ft.
¼ in. Heat Absorbing Wire	.86 per □ ft.
Glazing of above additionel $.15 to	.30 per □ ft.
Gless Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

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PLASTER (27)

Interiors - Metal Lath & Trim

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Exteriors

PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

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Warren, Ohio

THE SCOTT COMPANY *(17)

HAWS DRINKING FAUCET COMPANY
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CONTINENTAL WATER HEATER COMPANY
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Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

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SHEET METAL (32)

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San Francisco: Russ Building, DO 2-0890

MICHEL & PFEFFER IRON WORKS, INC. *(13)

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Salt Lake City: Walker Bank Bldg., SL 3-6733

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SAN JOSE STEEL CO. *(33)

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PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

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ROBERT W. HUNT COMPANY
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Los Angeles: 3050 E. Slauson, JE 9131
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San Francisco: 651 Howard St., EX 2-1747

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ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (September 1, 1952.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68					
BRICKLAYERS	3.25	3.25	3.25	3.00	3.25	3.00	3.45	3.25	3.00	3.00	2.75	3.00	3.00
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.45	2.45	1.94	1.94	1.94	1.94	1.94
CARPENTERS	2.60	2.60	*2.39	*2.39	*2.39	*2.39	*2.39	*2.39	2.57	2.57	2.57	2.57	2.43
CEMENT FINISHERS	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	2.57	2.57	2.57	2.57	2.57
ELECTRICIANS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.75	2.75	2.75	2.75	2.75	2.75
ELEVATOR CONSTRUCTORS	2.75	2.70	2.65	2.75	2.915	2.915	2.915	2.915	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.25	2.30	2.30	2.30	2.16	2.16	2.16	2.16	2.12
IRONWORKERS: ORNAMENTAL	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.70	2.70	2.70	2.70	2.70
REINF. RODMEN	*2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.38	2.38	2.38	2.38	2.38
STRUCTURAL	*2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
LABORERS: BUILDING	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
CONCRETE	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
LATHERS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.8125	3.125	3.125	3.125	3.125	3.125
MARBLE SETTERS	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.40	2.40	2.40	2.40	2.40
PAINTERS	**2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.38	2.56	2.425	2.22	2.22
PILEDRIVERS	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	2.56	2.38	2.38	2.38	2.38
PLASTERERS	3.125	3.165	3.125	3.125	3.00	3.00	3.125	3.00	3.125	3.125	3.125	3.125	3.125
PLASTERERS, HODCARRIERS	2.60				2.50	2.50		2.50	2.875	2.25	2.30	2.00	2.00
PLUMBERS	2.90	2.90	2.875	2.75	2.75	2.75	2.75	2.75	2.90	2.90	2.90	2.90	2.90
ROOFERS	2.50	2.50	2.50	2.25	2.50	2.50	2.50	2.50	2.65	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.475	2.475	2.3125	2.43	2.50	2.50	2.40	2.415	2.475	2.475	2.175	2.00	2.475
SPRINKLER FITTERS	2.75	2.70	2.70	2.625	2.625	2.625	2.75	2.75	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.75	2.90	2.90	2.75	2.625	2.625	2.75	2.75	2.90	2.90	2.90	2.90	2.90
TRUCK DRIVERS—½ Ton or less	1.89	1.99	1.99	1.89	1.89	1.74	1.89	1.89					
TILESETTERS	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.65	2.65	2.65	2.65	2.65

* 6 Hour Day. ** 7 Hour Day. *** Before C.I.S.C for ISc increase.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

CHINA SENDING ENGINEERS TO CENTENNIAL IN CHICAGO

The Nationalist Chinese Government is sending two official delegates from its headquarters on Formosa to the Centennial of Engineering to be held in Chicago this summer.

Lenox R. Lohr, president of the Centennial, also announced that South America will send 150 to the celebration between September 3 and 13.

CONSTRUCTION INDUSTRIES COMMITTEE REVIEW OAKLAND BUILDING TRENDS

"This Is Blueprint Time" featured the recent 5th annual meeting of the Construction Industries Committee of the Oakland Chamber of Commerce, with consideration of "Advance Planning of Deferred Projects" discussed by Dr. Kent Friel, Oakland City Schools; James H. Anderson, AIA, Architect, Oakland; and Frederic A. Chase, executive secretary of the California Council of Architects, Los Angeles, one of the highlights of the conference.

John F. Tulloch, Contractor and chairman of a committee on consolidation indicated checking of plans by the City of Oakland will soon be consolidated into one department, rather than spread through six departments as at present.

Marcus S. Carlson, Alameda county building official, reported greater uniformity in codes among the 20 jurisdictions of the East Bay, and Edward H. Morrill discussed progress in developing a uniform plumbing code for the area.

"Building design has completed its period of radical and abrupt change, and now is approaching a more or less static form which we can expect to continue in its popularity for the next few years," said Architect Anderson, discussing advance planning.

"Thus it is safe to plan now those structures which will be needed during at least the next five year period, without danger of the design becoming outmoded."

Chase said "a new city is being born every week in America," with 75,000 babies a week breaking all population increase records and creating a vast new market for all kinds of goods and services, including construction, during the next decade.

LOS ANGELES VOTED "NO"—The widely debated public housing program in Los Angeles, which was killed by City Council action but referred to the voters by its sponsors, was defeated by a 120,000 plurality of voters against the tax subsidized housing projects.

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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

ASBESTOS FACTORY BUILDING, Santa Clara County. Keasbey & Matisen, owner. Building and equipment, $1,500,000. DRAWINGS BY: Austin Co., Oakland. 1-story, 110x700, structural steel frame, some brick walls, corrugated asbestos siding & roof, steel sash, reinforced concrete floor & foundation. GENERAL CONTRACTOR: Austin Co., Oakland.

POST POLIO HOSPITAL, Rancho Los Amigos, Hondo, Los Angeles County. Los Angeles County Board of Supervisors, owner. 1-story, part basement, 460 ft. long, 70,000 sq. ft., 3 nursing units, 198 beds, $1,220,000. ARCHITECT: Adrian Wilson, Los Angeles; Paul R. Williams, Los Angeles, cement block wall construction, steel bar joists, gypsum plaster and metal lath ceilings, insulation board and concrete slab roof, built-up roofing, terrazzo, quarry tile and ceramic tile floors, steel sash, sliding doors, two pools, hot water heating system, hydraulic elevator, glass doors. GENERAL CONTRACTOR: Baruch Corp., Los Angeles.

ALICE BIRNEY ELEMENTARY SCHOOL, Eureka, Humboldt County. Eureka Elementary School District, owner. 7 classrooms, administration, kitchen, kindergarten, multipurpose & toilet rooms, $322,000. ARCHITECT: Masten & Hurt, San Francisco, frame construction. GENERAL CONTRACTOR: C. S. Phillips, Petaluma.

LOW RENT HOUSING PROJECT, San Pedro, Los Angeles County. Housing Authority of the City of Los Angeles, owner. 2-story, 194 dwelling units, $1,347,500. ARCHITECT: Armand Monaco, Los Angeles, frame & Stucco construction, composition roofs, concrete slab, asphalt tile flooring, hardwood and linoleum, steel sash, tile or stainless steel counter tops, gas wall heaters, cement block garden walls, asphalt paving. GENERAL CONTRACTOR: Milton Kauffman Construction Corp., Gardena.

NEW WASHINGTON SCHOOL SITE, San Lorenzo, Alameda County. San Lorenzo Elementary School District, owner. 12 classrooms, administration, 2 play courts, 12 outside classrooms, multi-purpose, kitchen & toilet rooms, $418,399. ARCHITECT: Schmidts & Hardman, Berkeley, frame & stucco construction. GENERAL CONTRACTOR: Frank A. Payne & Son, Berkeley

PHILLIPS ELEMENTARY SCHOOL, Napa, Napa County. Shurtleff Elementary School District, owner. 4 classrooms, office, multipurpose, kitchen & toilet rooms, $148,900. ARCHITECT: Russell G. DeLappe, Berkeley. GENERAL CONTRACTOR: Pacific Co., Berkeley.

PANAMA ELEMENTARY SCHOOL. Carmichael, Sacramento County. Arden-Carmichael Elementary School District, owner. 8 classrooms, administration, kindergarten, multi-purpose, kitchen & toilet rooms, $259,780. ARCHITECT: Albert M. Dreyfuss, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: Rex N. Jensen, Sacramento.

COMBINATION ARMORY AND EXHIBIT BUILDING, Fresno, Fresno County. 21st District Agricultural Assoc., owner, $633,000. ARCHITECT: Franklin & Simpson, Fresno. 2 story steel & concrete construction, 123 x 283 brick veneer, exterior, drill floor, 80 x 200, offices, locker, & supply rooms.

ELECTRONICS RESEARCH LABORATORY, Mt. View, Santa Clara County. Sylvania Electric Products Co., owner, $450,000. STRUCTURAL ENGINEER: R. H. Cooley, Oakland. Reinforced concrete construction wood roof, trusses, concrete slab floors, offices to be wood construction. GENERAL CONTRACTOR: John J. Moore Co., Oakland.

HAGG'N WOOD ELEMENTARY SCHOOL, North Sacramento, Sacramento County. N. Sacramento Elementary School District, owner. 12 classrooms, administration, kindergarten, multi-purpose, kitchen & toilet rooms, $328,157. ARCHITECT: Koblik & Fisher, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: United Construction Co., Sacramento.

OIL PLANT, OFFICE AND WAREHOUSE, COOPERAGE BUILDING, BOILER HOUSE, TANK FARM, ETC., Alameda, Alameda County. Fennzoil Co., owner, $250,000. PLANS BY: James H. McFarland, San Francisco. Office & warehouse, 140 x 140, cooperage bldg., 40 x 80 boiler & blending bldg., 40 x 100 reinforced concrete & wood roof construction ,yard paving. GENERAL CONTRACTOR: James H. McFarland, San Francisco.

SOCIAL HALL & SUNDAY SCHOOL BUILDING, Richmond, Contra Costa County. First Presbyterian Church, owner, $160,000. ARCHITECT: Donald L. Hardison, Richmond. Frame & stucco construction, radiant & hot air heating. SUPT. CONSTRUCTION: P. M. Sanford, Richmond.

OFFICE BUILDING, Gilroy, Santa Clara County. Be Ge Mfg. Co., owner, $85,000. ARCHITECT: L. F. Richards, Santa Clara. 1 story, 10,000 sq. ft., frame & stucco construction. GENERAL CONTRACTOR: Wm. Radtke & Son, Gilroy.

LAFAYETTE ELEMENTARY SCHOOL, Eureka, Humboldt County. Eureka Elementary School District, owner. 7 classrooms, administration, kindergarten, multi-purpose, toilet rooms, $266,832. ARCHITECT: Ernest F. Winkler, San Francisco. Frame & stucco construction, some structural steel. GENERAL CONTRACTOR: Robert H. Douglas, Fortuna.

FACULTY RESIDENCE, San Mateo, San Mateo County. Roman Catholic Archibishop of San Francisco, owner. St. Matthews Parish, $184,750. ARCHITECT: Vincent Buckley, San Francisco. Frame & stucco construction. GENERAL CONTRACTOR: Pacific Coast Builders, San Francisco.

FURNITURE STORE, Santa Rosa, Sonoma County. Pederson Furniture Co., owner, $159,880. ARCHITECT: J. Clarence Felciano, Santa Rosa. 1 & 2 story & mezzanine, 180 x 100, reinforced concrete construction. GENERAL CONTRACTOR: Codding Homes, Santa Rosa.

RECTORY & CHURCH, Hayward, Alameda County. Roman Catholic Archbishop of S. F., owner. St. Clemens Parish, $161,694. ARCHITECT: Vincent Buckley, San Francisco. Frame & stucco construction. GENERAL CONTRACTOR: R. F. Johnson & Son, El Cerrito.

CHURCH, San Jose, Santa Clara County. First Christian Science Church, owner, $250,000. ARCHITECT: Percy P. Lewis, Los Angeles. Frame construction. GENERAL CONTRACTOR: O. E. Anderson, San Jose.

MED'CAL OFFICE BUILDING, Beverly Hills, Los Angeles County. Geo. Cordingly, owner. 4 stories & basement, 92 x 148, $300,000. STRUCTURAL ENGINEER: K. Bardizbanian, Los Angeles. Reinforced concrete and brick construction, structural steel work, composition roofing, concrete and wood floors, one elevator, rubber tile work, travertine facing, metal sash, steel joists. OWNER BUILDS AND AWARDS SEPARATE CONTRACTS.

MORMON TEMPLE, West Los Angeles, Los Angeles County. Church of Jesus Christ of Latter-Day Saints, owner. 4 stories, 301 x 80 ft. and 364 x 101 ft., $3,000,000. ARCHITECT: Edward O. Anderson, Salt Lake City.

CONSTRUCTION SUPERINTENDENT: Jacobsen Construction Co., Santa Monica. Reinforced concrete and cast stone exterior, concrete floor and roof slabs, built up roofing, marble cork, and carpet floor covering, hot water heating system, fluorescent and incandescent lighting, elevators, fire doors, glass doors, insulation, marble work, metal lath, metal skylights, reinforcing steel, sheet metal, sprinkler system, steel sash, steel roof trusses, tile work, vault doors.

ETHEL PHILLIPS SCHOOL ADDITION. Sacramento, Sacramento County. Sacramento Elementary School District, owner. 9 classrooms, library, kindergarten, home economics, shop, music, kitchen, multi-purpose & toilet rooms, $350,766. ARCHITECT: Geo. C. Sellon, Sacramento. Frame & stucco construction. GENERAL CONTRACTOR: Chas. F. Unger, Sacramento.

RESIDENCE, Holmby Hills, Los Angeles County. Paul Drews, owner. 2 story, 10 rooms, $61,500. ARCHITECT: Louis C. Holmes, Beverly Hills. Frame & stucco construction, shake roofing, oak floors, forced air heating, air conditioning, asphalt paving, glass doors, insulation, marble work, steel sash, terrazzo work, 4 baths, 25 x 70 ft. swimming pool tiled. OWNER BUILDS.

CONVENT, Venice, Los Angeles County. Roman Catholic Archbishop of Los Angeles,

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owner. 1 story, 700 sq. ft., $64,721. STRUCTURAL ENGINEER: Laurence D. Viole, North Hollywood. Frame & stucco construction, tile roof, concrete slab, oak asphalt tile and ceramic tile floors, plaster walls and ceilings, forced-air heating. GENERAL CONTRACTOR: J. H. Kuhl & Sons, Los Angeles.

OFFICE BUILDING, West Los Angeles, Los Angeles County. c/o Rameson Bros., owner. 6 story, 120 x 265 ft., 36 toilet rooms, $526,000. ARCHITECT: Palmer, Krisel and Lindsay, West Los Angeles. Steel and masonry construction, built-up roof, terrazzo floors, forced air heating, air conditioning, asphaltic concrete paving, ceramic veneer, elevators, fire doors, glass doors, insulation, marble work, metal lath, metal skylights, steel sash, structural glass, steel roof trusses. GENERAL CONTRACTOR: Rameson Bros., Santa Monica.

ELEMENTARY SCHOOL BUILDING, Tranquility, Fresno County. Tranquility Elementary School District, owner. 6 classrooms, kindergarten, multi-purpose, kitchen & toilet rooms, $236,648. ARCHITECT: Franklin & Simpson, Fresno. Frame & stucco construction. GENERAL CONTRACTOR: L. H. Hansen & Sons, Fresno.

BAKERY, Los Angeles, Los Angeles County. Golden Crust Bakery, owner. 92 x 136 ft., $77,200. STRUCTURAL ENGINEER: Jack E. Spencer, Huntington Park. Reinforced concrete, composition roofing, concrete slab, asphalt tile, skylights, galvanized iron sliding doors. GENERAL CONTRACTOR: Dudley Steel Corp., Southgate.

SCIENCE BUILDING AND LIBRARY BUILDING, Goleta, California. Board of Regents University of California, owner. 2 story and basement, $1,941,500. ARCHITECT: Chester L. Carpoja, Santa Barbara. Brick construction, composition and shingle tile roofing, concrete slab, asphalt tile, linoleum, ceramic tile, terrazzo floors, wood wainscoting, steel sash, metal doors, tin clad doors, steel beams, laboratory equipment, seating, metal toilet partitions, sheet metal elevator, heating and ventilating. GENERAL CONTRACTORS: Williams and Burrows, Inc. and Carl N. Swenson, Oxnard.

BOYS CAMP BUILDING, Madrone, Santa Clara County. Santa Clara County Board of Supervisors, owner. Dormitory building, dining room & kitchen building, $91,900. ARCHITECT: Logue & Walter, San Jose. Concrete block & frame construction. GENERAL CONTRACTOR: L. W. Phillips, Jr., San Jose.

DARNELL SCHOOL, San Diego, San Diego County. San Diego Unified School District, owner. 1 story, 8 classrooms, $273,891. ARCHITECT: Robert A. Bradt, San Diego. Frame & stucco construction, composition roof, slab and asphalt tile floors, radiant heating, asphalt concrete paving, fire doors, insulating, marble work, metal lath, metal skylights, plate glass, reinforcing steel, sheet metal, steel sash, steel roof, trusses. GENERAL CONTRACTOR: Riha Construction Co., San Diego.

JEFFERSON ELEMENTARY SCHOOL, Hanford, Kings County. Hanford Elementary School District, owner. 10 classrooms, administration, kindergarten, multi-purpose, kitchen & toilet rooms, $308,024. ARCHITECT: Horn & Mortland, Fresno. Frame & stucco construction, steel bents, concrete slab, floors, radiant heating. GENERAL CONTRACTOR: A. C. King Co., Fresno.

WAREHOUSE BUILDING, Los Angeles, Los Angeles County. Baker Steel & Tube Co., owner. 3 rooms, $55,000. ARCHITECT: McClellan, MacDonald & Markwith, Los Angeles. Composition roofing, concrete slab floor, skylights, wood trusses, wood sliding doors, gas heating, steel sash. GENERAL CONTRACTOR: Buttress & McClellan, Inc., Los Angeles.

HAMILTON ELEMENTARY SCHOOL, Hanford, Kings County. Hanford Elementary School District, owner. 8 classrooms, administration, multi-purpose, kindergarten & toilet rooms, $292,696. ARCHITECT: Horn & Mortland, Fresno. Frame & stucco construction, structural steel bents, concrete slab floors, radiant heating. GENERAL CONTRACTOR: A. C. King Co., Fresno.

CHURCH BUILDING, Henderson, Nevada. Church of the Latter Day Saints, owner. 20 rooms, $150,000. ARCHITECT: Theo R. Pope, Salt Lake City. 15,370 sq. ft. GENERAL CONTRACTOR: Edward C. Bunker, Henderson, Nevada.

NEW ELEMENTARY SCHOOL, Porterville, Tulare County. Alta Vista School District, owner. 7 classrooms, administration, home economics & toilet rooms, $261,656. ARCHITECT: Culver E. Heaton, Pasadena. 15,000 sq. ft., frame & stucco construction. GENERAL CONTRACTOR: David Chamberlin, Porterville.

HAMILTON FIELD ELEMENTARY SCHOOL, Campbell, Santa Clara County. Campbell Union Elementary School District, owner. 5 classrooms, administration, kindergarten, multi-purpose, kitchen & toilet rooms, $202,924. ARCHITECT: Higgins & Root, San Jose. Frame & stucco construction. GENERAL CONTRACTOR: Sam E. Barth, San Jose.

147th STREET SCHOOL, Lawndale, Los Angeles County. Lawndale School District, owner. 8 classrooms, kindergarten, administrative unit, cafetorium, $294,950. ARCHITECT: H. L. Gagerty, Los Angeles. Reinforced concrete construction, structural steel, composition roofing, cement slab, asphalt tile floors, steel sash, tile toilet floors, heating and ventilating. GENERAL CONTRACTOR: Carter Mack Builders, Harbor City.

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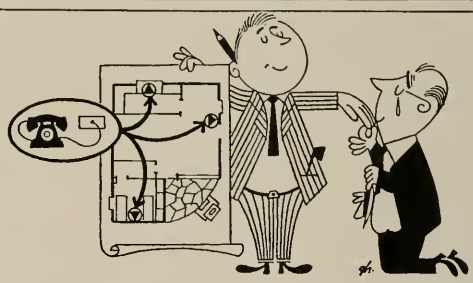

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IN THE NEWS

NEW BOARD MEMBER NAMED TO CENTENNIAL OF ENGINEERING

Fred G. Gurley, president of the Santa Fe Railway, has been elected a member of the board of directors of the Centennial of Engineering which is being held in Chicago this summer.

The board is comprised of thirty-seven national leaders in industry, engineering and business.

PLAYGROUND EXPANSION FOR CITY OF LOS ANGELES

Plans have been completed for construction of additional playgrounds and recreational centers throughout the City of Los Angeles, according to City Recreation and Park Department officials.

Some $2,000,000 will be expended for this project.

FEDERAL FUNDS APPROVED FOR NEW SCHOOL

Federal funds have been approved and working drawings accepted for the construction of a new $350,000 Elementary School building in Richmond, California.

The structure will comprise 12-classrooms including kindergarten, administration, multi-purpose, kitchen and toilets, and will be of frame and stucco construction.

Chas. F. Strothoff, San Francisco, is the architect.

W. . HENSON HOLDS LARGE ARIZONA HIGHWAY CONTRACTS

W. J. Henson, construction firm of Prescott, Arizona, has three contracts totaling $1,210,322 with the Arizona State Highway Department for road construction on the new Black Canyon Highway (State Route 69), which runs due north from Phoenix.

When completed, the Black Canyon route will save about one hour's driving time between Phoenix, Prescott, Flagstaff and other northern communities.

COLORADO ENGINEER ELECTED PRESIDENT

Mark U. Watrous, chief engineer of the Colorado Department of Highways, has been elected president of the Western Association of State Highway Officials, succeeding W. A. Bugge, Washington State Highway Director.

Other officers elected to serve for the ensuing year include: E. V. Miller, Idaho highway engineer, vice-president; W. E. Willey, engineer, division of economics and statistics, Arizona Highway Department, secretary-treasurer; and D. C. Greer, Texas highway engineer, and W. C. Williams, Oregon assistant highway engineer, executive committee members.

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ELECTED PRESIDENT PABCO COMPANY

William L. Keady, formerly president of the United States Gypsum Company and the Marathon Paper Company, has been elected president of Pabco Products, Inc.

Wm. H. Lowe, president of Pabco, was named chairman of the Board replacing Richard S. Shainwald who becomes Honorary Chairman of the Board of Directors.

ARCHITECT MOVES

Edward O. Blodgett, architect, has moved his offices from 1989 Hoover Avenue, Oakland, to 251 Kearny Street, San Francisco, where he will engage in the general practice of architecture.

RADIO STATION FOR OAKLAND

Radio station KROW, Oakland, is constructing a new broadcasting station on Sand Island in San Francisco Bay at an estimated cost of $45,000. Sand Island is situated opposite the San Francisco-Oakland Bay Bridge toll plaza.

Oakie C. Johnson of Oakland is the architect. The building will be of 1-story frame and stucco construction on a pile base.

LOW RENTAL SALINAS PROJECT

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IN THE NEWS

NEW BOARD MEMBER NAMED TO CENTENNIAL OF ENGINEERING

Fred G. Gurley, president of the Santa Fe Railway, has been elected a member of the board of directors of the Centennial of Engineering which is being held in Chicago this summer.

The board is comprised of thirty-seven national leaders in industry, engineering and business.

PLAYGROUND EXPANSION FOR CITY OF LOS ANGELES

Plans have been completed for construction of additional playgrounds and recreational centers throughout the City of Los Angeles, according to City Recreation and Park Department officials.

Some $2,000,000 will be expended for this project.

FEDERAL FUNDS APPROVED FOR NEW SCHOOL

Federal funds have been approved and working drawings accepted for the construction of a new $350,000 Elementary School building in Richmond, California.

The structure will comprise 12-classrooms including kindergarten, administration, multi-purpose, kitchen and toilets, and will be of frame and stucco construction.

Chas. F. Strathoff, San Francisco, is the architect.

W. . HENSON HOLDS LARGE AR'ZONA HIGHWAY CONTRACTS

W. J. Henson, construction firm of Prescott, Arizona, has three contracts totaling $1,210,322 with the Arizona State Highway Department for road construction on the new Black Canyon Highway (State Route 69), which runs due north from Phoenix.

When completed, the Black Canyon route will save about one hour's driving time between Phoenix, Prescott, Flagstaff and other northern communities.

COLORADO ENGINEER ELECTED PRESIDENT

Mark U. Watraus, chief engineer of the Colorado Department of Highways, has been elected president of the Western Association of State Highway Officials, succeeding W. A. Bugge, Washington State Highway Director.

Other officers elected to serve for the ensuing year include: E. V. Miller, Idaho highway engineer, vice-president; W. E. Willey, engineer, division of economics and statistics, Arizona Highway Department, secretary-treasurer; and D. C. Greer, Texas highway engineer, and W. C. Williams, Oregon assistant highway engineer, executive committee members.

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ELECTED PRESIDENT PABCO COMPANY

William L. Keady, formerly president of the United States Gypsum Company and the Marathon Paper Company, has been elected president of Pabco Products, Inc.

Wm. H. Lowe, president of Pabco, was named chairman of the Board replacing Richard S. Shainwald who becomes Honorary Chairman of the Board of Directors.

ARCHITECT MOVES

Edward O. Blodgett, architect, has moved his offices from 1989 Hoover Avenue, Oakland, to 251 Kearny Street, San Francisco, where he will engage in the general practice of architecture.

RADIO STATION FOR OAKLAND

Radio station KROW, Oakland, is constructing a new broadcasting station on Sand Island in San Francisco Bay at an estimated cost of $45,000. Sand Island is situated opposite the San Francisco-Oakland Bay Bridge toll plaza.

Oakie C. Johnson of Oakland is the architect. The building will be of 1-story frame and stucco construction on a pile base.

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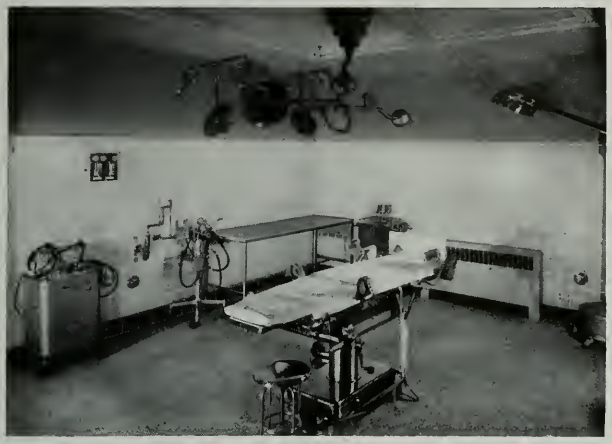

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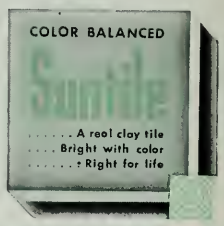

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Tile Talk

BY HERMOSA

Someone once said, "Architects speak a language all their own." That may be, but architects also speak in many languages to many people.

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DR. A. O. BECKMAN, president of Beckman Instruments, Inc., South Pasadena, said the architectural and engineering firm of Donald R. Warren Company of Los Angeles, had been retained to design the new main plant and offices which will be erected for the company on a 45-acre site recently acquired in the LaHabra-Fullerton area. The building will contain 200,000 sq. ft.

* * *

ALLISON HONER COMPANY of Santa Ana and Cox Brothers Construction Company of Stanton have been awarded three contracts totaling $6,673,000 for building facilities at the Camp Pendleton Marine Base.

* * *

A 47% increase in the number of construction loans during the first six months of 1952 has been reported by the savings and loan associations in Los Angeles County. The loans pass the same 1951 period by 31%. The report was issued by Neill Davis, executive vice president of the California Savings and Loan League.

* * *

ARCHITECT Lloyd LeRaine Pike of Phoenix, Arizona, is preparing plans for the construction of a convent at St. Matthew's Church, West Van Buten Street and 21st avenue, Phoenix, for the Roman Catholic Diocese of Tucson. The convent will be a one-story brick with tile roof, forced air heat and refrigerated cooling and will contain 6500 sq. ft. in floor space.

* * *

THE Building Industry Conference Board will make an Annual Award to an outstanding person in the construction industry when the organization holds its annual dinner in San Francisco on October 30th. Recognition is given for "special service to the industry."

* * *

PLACE & PLACE, Tucson architects, are preparing plans and specifications for an addition to the University of Arizona Administration Building now under construction by the Harold Ashton Building Company.

* * *

JOHN E. McGOVERN, southern California Federal Housing Administration director, recently announced that Lancaster, Palmdale, and Mojave have again been declared a critical defense housing area under the Defense Housing Program No. 2A for relaxation of credit restrictions.

* * *

R. A. SMITH, president of the Southern California Chapter, Associated General Contractors of America; W. D. Shaw, Chapter manager; and J. A. Thompson, a national director, attended the organizations annual mid-year board meeting in White Sulphur Springs, W. Va., recently.

* * *

ARCHITECTS William G. Corlett, Oakland; John Lyon Reid, San Francisco, and Stiles O. Clements and Herbert J. Powell of Los Angeles, have been appointed to a new Earthquake Safety Advisory Board by Director of Public Works Frank B. Durkee.

* * *

HENRY C. SOTO, President of the Los Angeles Chapter, California Landscape Contractors' Association, presided at the recent First Annual Convention of the Association which was held on Catalina Island with more than 100 delegates in attendance.

* * *

STANLEY ELECTRIC TOOLS has moved its New York offices and salesrooms from 100 Lafayette Street to new quarters at 40 Worth Street, where they have leased seven large offices. Stanley Electric Tools is a division of The Stanley Works.

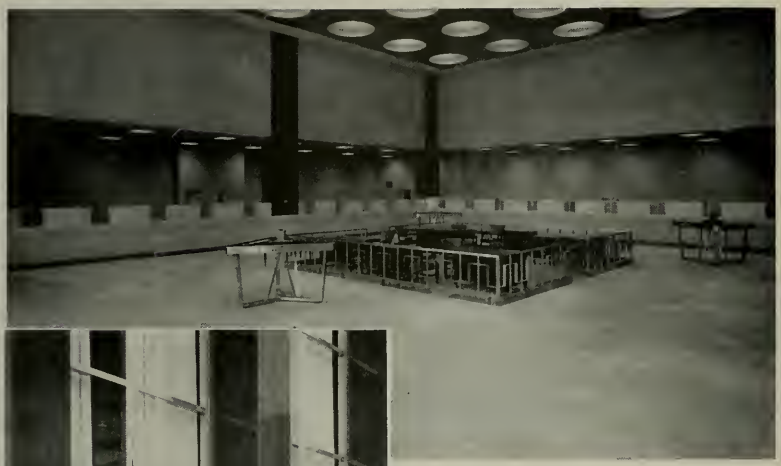
* * *

BROADENING the Field of Industrial Engineering, is the theme of the 16th Annual Time and Motion Study and Management Clinic scheduled for Nov. 5-6-7, Sheraton Hotel, Chicago, sponsored by Industrial Management Society.

* * *

BUSINESS should be good this fall with 97.8 per cent of working force employed.

marble AND GRANITE — THE BANK BEAUTIFUL



CROCKER FIRST NATIONAL BANK
OAKLAND, CALIFORNIA
MILTON T. PFLUEGER, ARCHITECT

TELLERS' WINDOWS ARE FACED WITH BOTTICINO MARBLE
BANKING ROOM FLOOR IS OF PINK TENNESSEE MARBLE WITH ROSEMONT TENNESSEE BASE

MAIN ENTRANCE COLUMNS ARE POLISHED IMPERIAL RED SWEDISH GRANITE

VERMONT MARBLE COMPANY

SAN FRANCISCO - : - LOS ANGELES

• ARCHITECT AND ENGINEER

Vol. 191 No. 1

ARCHITECTS' REPORTS—Published Daily

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Book Reviews

★

COVER PICTURE:

New Building
CROCKER FIRST NATIONAL BANK
Oakland, California

Dinwiddie Construction Company,, General Contractors.

Among recent commercial building in the San Francisco-Oakland bay area is the new Oakland office of one of California's oldest banking institutions.

It is a fine example of today's modernistic trend with the Ceramic Veneer and columns of polished red granite presenting a favorable contrast with adjacent structures. (For complete details see Page 20.)

Photographs by COMMERCIAL STUDIOS

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. EDITORIAL NOTES .

PRIVATE ENTERPRISE READY

There are probably several billion-$ worth of private-enterprise construction projects on the West Coast at this time, that are seriously contemplated, on drawing boards, or ready for launching.

Such a vast stored-up building activity represents thousands of new homes, many new and expanded manufacturing and industrial plants, untold commercial structures, and other buildings representing every phase of each single community's economic and cultural advance. Not to mention the remodeling of present structures to bring them up to modern standards of architectural design, utility of occupancy, and customer-client acceptance.

The far reaching benefits derived from such construction projects can not be easily determined, and most certainly can not be measured in terms of any dollars and cents volume of building permits.

New factories are built and existing plants expanded to supply a customer demand for products. New markets and new products are developed to serve scientific and technical advances in living, and new houses are built in conformity with population growth trends and family increases.

Every project must be carefully planned; properly financed; adequately supplied with building materials and products and experienced construction personnel; equipped with the newest machinery or furnishings; and "ready-made" for designed occupancy.

In all of this there is a community interest, sharing of financial risk and responsibility, and cooperative community pride. Such a great volume of potential building is not the result of guessing, but is based upon the most careful reckoning of the needs of the rapidly growing West.

Private enterprise is certainly well prepared and ready to move forward.

* * *

American industry is spending about $25 billion a year for new plants and equipment—which means new jobs for America's growing population.

* * *

INTELLIGENCE NEEDED

Modern progress in media for the dissemination of news and information to the public, has placed a grave and important responsibility on every American citizen.

Radio and television, for example, now offer candidates seeking political office an opportunity to camouflage their real thinking by placing great emphasis on personality and charm. One major television network has a "charm school" where "clients" may learn pleasing gestures and proper timing conducive to the best TV appearance. Lighting, make-up, and other mysteries of the television art are explained to political candidates so they may "come through" to voters with maximum impact.

It is unlikely that proper lighting, gestures, and timing will strengthen the candidate's character, nor will pancake make-up improve his ability in office, or heighten his sincerity and statesmanship.

The individual voter will, therefore, have to put an "air" or "televised" candidate through a rigid examintaion to distinguish between the showmanship and statesmanship of the individual.

At the General Election in November, voters will pick a President, Vice-President, thirty-four United States Senators, four hundred and thirty-five Congressmen, and a host of local city, county and state officials throughout the nation. This is a challenge to every voter to pick governmental representatives who can and will carry on the American way of life.

* * *

"We can never hope to find security for ourselves or our nation by destroying the legitimate incentive of others. We can never win by imposing penalties upon thrift and success":—Benjamin F. Fairless, Pres, US Steel Corpn.

* * *

FRUITS OF SOCIALISM

Socialism is like a high tension wire—once you grab hold of it, you can not let go.

This simple lesson can be learned by taking a searching look at the mutual defense treaty negotiated by the United States, Australia, and New Zealand.

New Zealanders are contributing only $70-million as their share of mutual defense in the Pacific . . . total budget is approximately $590-million.

One of the principal reasons they can not contribute more is because almost one-half of their total national budget, about $273-million, must be used to meet the continuing costs of the welfare programs which the socialists inaugurated and left in their laps when the Socialists were voted out of office more than two years ago.

It is not difficult to see from this graphic example, that once you yield to socialism, it stays with you, and you can not remove it by merely voting someone out of office.

COLORFUL CLAY BRICK
Background for merchandising

Whether it is greater "lure power" for the store front or dramatic backdrop for interior displays, colorful Clay Brick provides the ideal setting for modern retailing. And best of all, one wall does it all! Saves on overhead too... never needs painting—keeps its ever-new look for decades. Economy, functional objectives, and "that substantial look" are three big reasons for including colorful Clay Brick in your next project.

AN EXCELLENT EXAMPLE
OF MODERN STORE DESIGN
IN DOWNTOWN OAKLAND

CONFER & WILLIS
Architects

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NEWS and COMMENT ON ART

PORTLAND ART MUSEUM

Thomas C. Colt, Jr., Director of the Portland Art Museum, West Park and Madison, announces the Fall season of special events and exhibitions will open during October with a number of outstanding exhibits.

A review of the work of Henri Matisse; drawings by Oregon artists; a decade of Painting in Portland, by Carl Morris; and the annual display of Oregon Advertising Art—1952, will highlight the October exhibitions.

SAN FRANCISCO MUSEUM OF ART OPENS BRANCH

The Parkmerced Branch of the San Francisco Museum of Art was opened to the public on October 2nd, with an exhibition of "Modern Masters" from the Museum's collections.

Among items selected by Dr. Grace L. McCann Morley, director of the Museum, for exhibition were "Gloria" and "Isabella" by Alexander Brook; "Bridge" by Joseph Stella; "Italian Summer" and "Woman Praying" by Maurice Sterne. Andre Derain, Pablo Picasso, Maurice Utrillo, Maurice Vlaminck, and Georges Braque are also represented in the exhibit.

"Modern Masters" will be followed by an exhibit of Latin American artists from the Museum's collection of Latin American Art.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of

(See Page 38)

PORTLAND ART MUSEUM

STANDING NUDE

(Bronze)

Aristide Maillol

ANNUAL REGIONAL CONFERENCE
California Council of Architects
YOSEMITE PARK

Most controls on building should be ended in the very near future, Glenn Stanton, Portland, Oregon, architect and president of the American Institute of Architects, told delegates to the annual meeting and Sierra-Nevada Regional Conference, held in Yosemite Park, October 8-11.

"One by one controls are being eliminated," Stanton stated, "as more surpluses in materials vital for national defense production develop.

"There is nothing today to stop people from building. Controls are being eased all the time, and one morning soon we should wake up to find that all bans have been lifted," Stanton declared.

Stanton, an outstanding West Coast architect, returned only recently from Washington, D. C., where he testified at a number of special governmental meetings advocating a Federal program of releasing more steel for school construction. School administrators, Parent Teacher Association groups, engineers, architects, and building material manufacturers attended the hearings.

The request for release of the much needed steel was granted immediately, Stanton told the conference "thereby indicating that the supply of this metal is in sufficient supply" as the nation's large steel manufacturing companies had reported over a year ago.

Speaking on the overall national situation, Stanton, pointed out that surveys and statistics showed

(See Page 36)

1952 ANNUAL CONVENTION
STRUCTURAL ENGINEERS ASSOCIATION
OF CALIFORNIA

Registration at the 1952 Annual Convention of the Structural Engineers Association of California, being held for the first time at the Mission Inn in Riverside, exceeded all previous records and attracted delegates and guests from all sections of California and the West.

The program, under the direction of Ben Benioff, General Convention Committee Chairman, included a wide variety of technical papers, engineering profession discussions, and entertainment. Consideration was also given education features and the training of future engineers.

Convention activities started with a meeting of the Board of Directors on Wednesday evening October 15, and following registration of delegates the next morning, Donald F. Shugart, President of the Structural Engineers Association, officially opened the convention at 2 o'clock with an exchange of greeting with city officials.

The first technical session, with J. S. Barish acting as Session Chairman, followed with a discussion of "Summary of Earthquake and Blast Symposium" by Prof. C. Martin Duke and Morris Feigen. T. R. Higgins, Director of Engineering, A.I.S.C. led a discussion period.

A Report of Research—California Department of Highways, Bridge Division, was given by Stewart Mitchell.

Research Reports the next morning included Port Hueneme, U. S.C., Cal. Tech, University of California, Stanford, and U. C. L. A.

John J. Gould, President SEAONC, Session Chairman, opened the Friday afternoon meeting with a Report of Research on High Strength Bolts by Prof. F. B. Farquharson of the University of Washington. "The Making of Technical Men for Industry" was the subject of a talk by Prof. Frederick C. Lindvall, California Institute of Technology, and "Civil Engineering Curriculum" — Problems of adequate

(See Page 34)

OFFICE-WAREHOUSE — RALPH C. BEADSWORTH, Architect

A PROBLEM IN MUNICIPAL UTILITY PLANNING

EUGENE ELECTRIC and WATER BOARD

EUGENE, OREGON

By ARTHUR W. PRIAULX

How can the governing board of a municipal water and electric utility make any sound long range planning when the area it serves has doubled in population in the short years since World War II and when demand for electric energy has increased 2700 per cent in the past 28 years? That has been the extraordinary problem confronting the Eugene Water and Electric Board.

It has been a challenge to men like Eugene's Ralph C. Beardsworth, architect, who has designed the buildings needed to care for this phenomenal expansion.

Neither Architect Beardsworth nor the businessmen members of the municipal utility's governing board had any precedent to go by when making their long-range plans. There were many forecasting a recession at the end of the last war. These men were handling public funds. If they guessed wrong, they would be subjected to severe criticism.

One fact stood out; the need for consolidation of the engineering, service, accounting, administrative, mechanical and supply facilities in one close-knit area. They were scattered and maximum efficiency could not be maintained.

Ralph C. Beardsworth was given the authority to develop a site planning program which would accomplish this objective and at the same time was called upon to anticipate the long range needs of

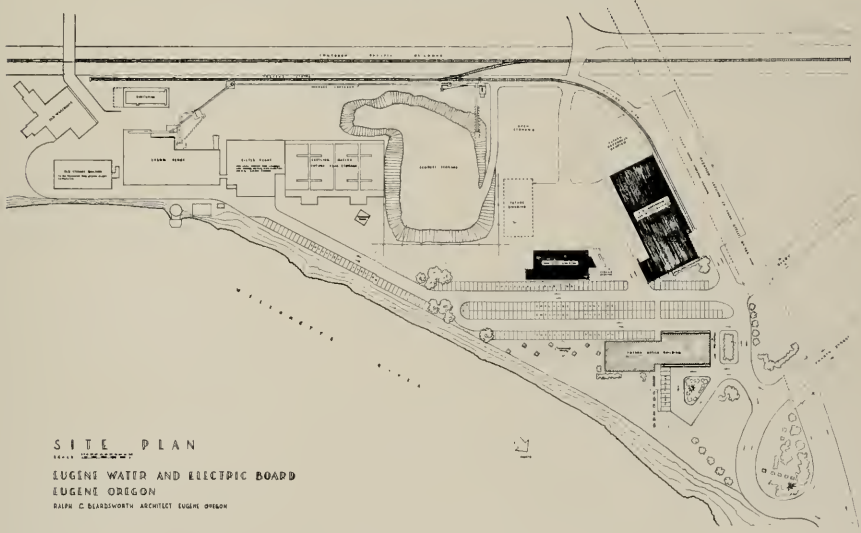
Information desk and account clerks meet the general public. Ceilings are of exposed roof decking and heavy timbers are also exposed. All offices are finished in knotty hemlock.

the utilities. A minor obstacle was the requirement that he get the most possible buildings for the least possible money.

On the edge of Eugene's business district, up against a bend in the Willamette River, the Water and Electric Board owned a seven-acre tract on which was a steam stand-by plant, a filter plant, settling tanks and sawdust storage space. Recommendations were made to purchase an additional nine-acre tract adjoining, which would give the city utility control of the entire property at the bend of the river bounded by the Ferry Street bridge.

The property acquired, Architect Beardsworth took over. His job was to fit immediate and future

SITE PLAN . . . Showing Present and Future Development



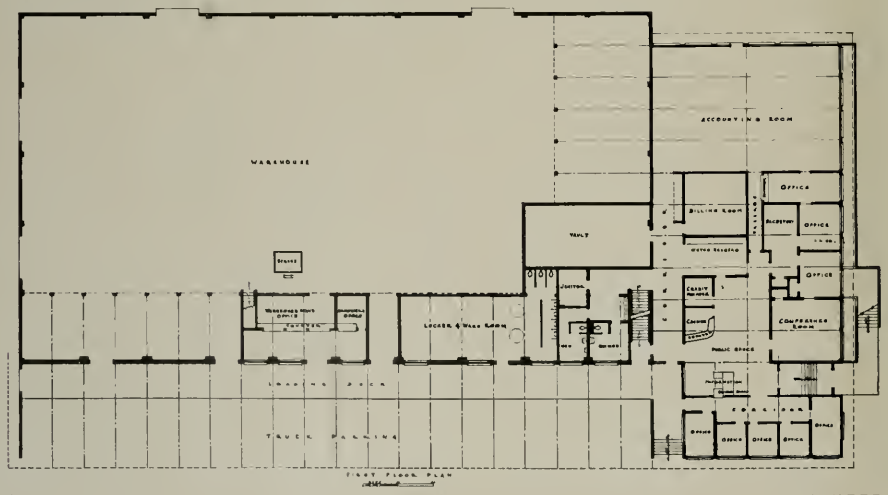
ENGINEERS' ROOM

On ground floor, is roomy and light is solved by higher intensities and low brightness ratio.

Eye-strain has been largely eliminated. Machine operotors are housed in special sound proof rooms which cut down on noise factor in larger offices.

building requirements into the area to coincide with existing steam plant and other facilities. The result today, less than two years later, is a model of long-range planning, of site arrangement and satisfaction of building needs. Even with the completion of a $240,000 office building-warehouse, and a $75,000 shop structure, board members and architect admit to being just one step ahead of expanding needs and a bit breathless from the intense, rapid tempo of keeping ahead of teeming

FIRST FLOOR PLAN . . .



LIGHTING

Is important requirement for drafting room.

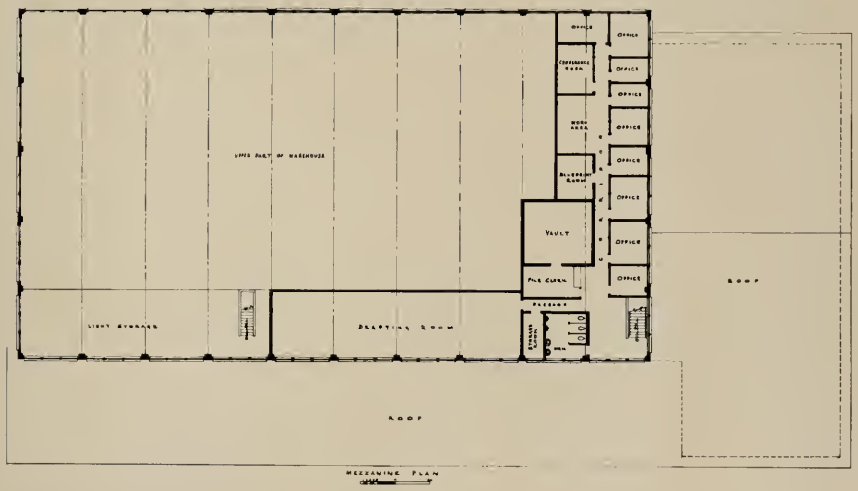
Note diagonal arrangement of fluorescent fixture which provide light without shadows when coupled with natural light from full wall of windows.

community growth. A ten-year building program has been telescoped into five years.

Central structure of the $20,000,000 municipal utility system is the newly completed office building-warehouse. This concrete and heavy timber structure, although 234 by 127 feet in size, is so designed that it can be increased by another 100 feet in length as the need arises. All other structures built or planned are likewise designed by Beardsworth for expansion.

Problems involved in the design of a building combining both warehouse facilities and absorbing also the accounting, administrative, drafting and engineering departments were many. Traffic

MEZZANINE FLOOR . . .



flow control has been a major accomplishment by the architect. The general public may come and go from the cashier's office with a minimum of trouble. Field and service men have ready access to warehouse and stock rooms and to a basement lunch room from doors opening off from a covered truck loading platform. Administrative, accounting, engineering and drafting staffs have easy access to each department.

The warehouse is a 180 by 100 foot, post-clear area. The walls and slab floor of the entire building are of reinforced concrete. Nine 100-foot bowstring fabricated wooden trusses span the warehouse area. The spans have a 14-foot rise from bottom chord to roof peak.

To provide a post-free loading area the full length of the warehouse, Beardsworth designed a series of nineteen 50-foot cantilever glu-lam fir beams which project thirty feet over the truck loading dock and the truck parking space and nineteen feet inside the building. The tapered beams ride on concrete columns where they enter the warehouse wall and are anchored to the concrete floor inside by a solid wooden post to take care of any strain from heavy snow load.

The offices are located in a 54-foot single story area adjoining the 127-foot end of the warehouse building. An L-shaped balcony or mezzanine occupies an area along the 100-foot end of the warehouse as well as along the full 180-foot wall. The drafting department and engineer staff private offices occupy most of this level.

Fire-proof storage vaults have been built on basement, main floor and mezzanine levels directly above each other. Active accounting records are stored in the main vault and the same size, 18 by 36 foot, basement vault is for dead storage and supplies. The smaller 18 by 20 foot vault on the balcony level protects maps, drawings and engineering records.

A six-foot bay of windows passes completely around the building and supplies natural light for both warehouse and offices. These windows are steel sash.

Two-inch car decking, tongue-and-groove fir, has been used throughout the roof area on the ware-

Glu-lam beams extend through into warehouse section to form timbers for support of balcony storage. Beam ends are anchored into concrete slab floor to care for extra stress in event of unusual snow load.

Interior of shop showing rigid frame of concrete skeleton. Concrete framing cast in single unit with overhead beams, columns, horizontal beams and corbels tied together. All work may be done indoors.

Interior of warehouse with post-free work area of 100x180 feet. A bay of windows around the entire warehouse section provides daylight.

house and over the single-story office area. A built-up roofing of composition over fibre glass insulation covers the office structure. Electric conduit for the single story office area has been laid against the car decking roof, and the fibre glass insulation was split with a knife and laid directly over it. Fluorescent lighting fixtures connect directly with the hidden conduit.

Three-inch tongue-and-groove fir car decking forms the floor of the mezzanine and is designed to support storage of heavy weights in the exposed warehouse section. This section is open to allow lift trucks to operate from the warehouse floor. Asphalt tile floor covering has been used in all office areas.

The car decking becomes the ceiling and is surfaced and has been left exposed in most offices and has been painted.

All offices have been panelled in knotty hemlock and finished with clear rez and varnish to retain wood appearance. Pattern of the vertical paneling is a V-rustic and all panels are in eight-inch boards. Beardsworth said the vertical paneling enables use of a more economical trim in the rooms.

Lighting levels in the offices and work areas are considerably above the minimum recommended standards and represent the latest trends towards higher intensities and low brightness ratio.

An interesting feature of the long drafting room is the diagonal arrangement of overhead fluorescent lighting fixtures which avoids shadows when coupled with the east window natural light.

A fin-type steam radiation system provides heating in all the offices and overhead down-blast fans which force air past steam coils provide heat in the warehouse and basement. The basement houses a 53 by 71 foot combination meeting and lunch room, kitchen, toilet rooms, telephone equipment room, transformer room, testing laboratory, storage vault and storage room. The basement oc-

A feature of the $240,000 office-warehouse structure is this out-of weather loading dock. The roof section is supported by specially designed glu-lam beams. Note camber of beams which ride on concrete pillars in the wall.

Photographs by Carroll C. Calkins

cupies about a third of the floor space of the building proper. Lightwells provide much of the basement light.

Gable ends of the main warehouse structure are tongue-and-groove red cedar, one-by-eight inches.

Beneath the balcony in the warehouse section, and opening off the covered loading platform are several functional rooms. One is the warehouseman's office which is countered to keep truck drivers and servicemen from the warehouse. Another is a locker room for repairmen. Entrances from this covered area also lead to basement, warehouse, and administrative offices.

Despite the considerable number of unrelated departments and variety of functions performed within this building, Beardsworth has been able to create a feeling of unity of purpose in the structure.

Structural and Mechanical engineers on the office building and warehouse were Pierson & Tidball, of Portland, Electrical engineer was J. F. Whitney, Eugene, contractor was E. E. Settergren, of Portland.

Another of the recently completed structures on the site is the shop building where all maintenance and repair work for the entire water and electric system is handled. From trucks and power shovels to transformers, the building has been designed to do the job.

It is a concrete and heavy timber structure with concrete predominating. Timbers support the roof of this 170 by 60 foot structure and make up most of the attractive contemporary industrial service station division on one end of the building.

The main shop building is actually a concrete skeleton, composed of reinforced concrete columns which support concrete roof beams and horizontal

(See Page 42)

The new shop building is a part of the expansion program. Large doorways permit moving of equipment for work and repair, from almost any direction. Again light planning has been given priority. The office building is in the background.

CERAMIC VENEER EXTERIOR FOR BEAUTY

Milton T. Pflueger, Architect

NEW BUILDING FOR

CROCKER FIRST NATIONAL BANK

OAKLAND, CALIFORNIA

DINWIDDIE CONSTRUCTION COMPANY
General Contractors

OLD BUILDING RAZED FOR NEW BANK STRUCTURE

Farmers and Merchants Savings Bank was merged with Crocker First National Bank in 1947.

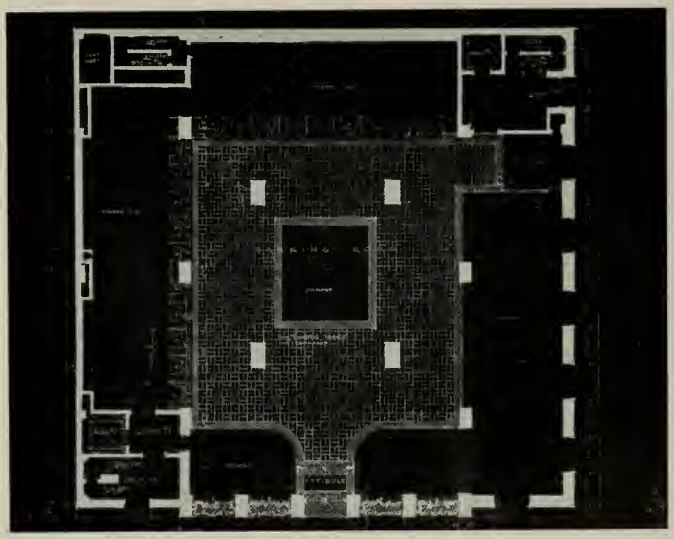
Opening of the new, million-dollar Crocker First National Bank building in Oakland, California, last August 25th, marked an important milestone in the history of one of California's oldest banking institutions.

Designed by Milton Pflueger, and built by the Dinwiddie Construction Company, the building is a fine example of today's modernistic trend.

The two-story and basement structure embodies the very latest developments and arrangements in office design for the convenience of both customers and employees. The building also includes a first floor mezzanine and a partial third floor, with the frame designed to support a full third floor.

William W. Crocker, Chairman of the Board of Crocker First National Bank, in discussing the new building, said "The decision to consolidate with Farmers and Merchants Savings Bank in 1947 was made to provide our Eastbay customers with the best in banking service. The response of Eastbay people to the traditionally friendly service of our

FIRST FLOOR PLANS



Building faces on Thirteenth Street in Oakland.

EXCAVATION IN PROGRESS

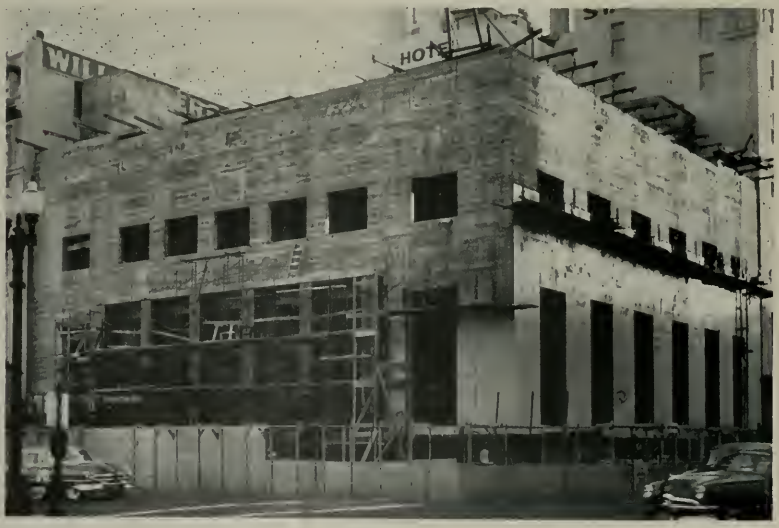
BELOW—Reinforced concrete structural frame in place and Ceramic Veneer exterior being installed on the two street sides of building.

institution was so gratifying that larger quarters became one of our primary objectives only a few months after our Oakland operations started."

The new structure occupies a 100-foot square site, is Class A construction, with heavy steel frame fire protected with concrete, and exterior walls and floor slabs of reinforced concrete.

The exterior is faced with Ceramic Veneer, with base and main entrance of polished Imperial red Swedish granite. The main banking room has a floor of pink Tennessee marble, with columns of red granite, recalling the main entrance treatment. The warm shades of marble, bronze rails, and walnut paneling in this room are spectacularly set off by the striking back-lighted plexiglass domes in the aluminum, acoustical ceiling.

Especially designed furnishings for the new bank, and the latest in mechanical equipment, including an air conditioning system with mechanical refrigeration, provide ideal working conditions



SAFE DEPOSIT VAULT-DOOR →

Hydraulic jacks inch this fifty-five ton safe deposit door into new bank location. Door was moved to Oakland from San Francisca.

George W. Hall, Vice President and manager af Oakland office; and J. F. Sullivan, Jr., an "Clam-digger."

SAFE DEPOSIT VAULT—huge door in place, and attendant area (below).

MAIN BANKING ROOM — Looking Towards 13th Street

throughout the building, winter and summer. Of particular interest is the attractive employees' lunchroom on the roof with adjoining recreation area.

Color consultant Elizabeth Banning was called upon for advice in correlating the over-all color scheme.

The night depository, conveniently located for customer use at the northwest corner of the building, is connected by a steel chute to a basement vault. With the exception of the new safe deposit vaults, which are available to customers, the basement area is devoted entirely to employees' work area.

UNIQUE CUSTOMERS' TABLE — Main Banking Room.

BUSINESS

DEVELOPMENT

And Credit department is located on the mezzanine floor.

The safe deposit vault door and vestibule, one of the finest pieces of equipment of its kind, weighs fifty-five tons. Equal to the weight of a switching locomotive. It is more than nine feet in width and height, and approximately four feet thick. The vault door is equipped with time locks and combinations, as well as electrical microphone protection.

Following are some of the outstanding features of the building:

The exterior finish is a beautiful Ceramic Veneer local area manufactured. The eight foot base and twenty-eight foot columns around the main entrance are polished Imperial red Swedish granite, fabricated specially by the manufacturer for this building.

The main banking room floor is of pink Tennessee marble with Rosemont Tennessee base.

Facing on the tellers' cages is Botticino marble.

Walnut paneling is used against the west wall and bleached White Oak paneling on the east and south walls above the tellers' cages.

There are thirty back-lighted plexiglass domes, six feet in diameter, above the tellers' cages. Officers' area is acoustical plaster.

Specially designed furnishings include, special brown textured carpet, loomed curtains, and putty colored leather customers' and officers' chairs.

There are nineteen tellers' cages, the wings of which are of gray finish. The counter surface is Botticino.

Gray rubber tile is used behind the tellers' cages.

The diffused lighting behind the tellers' cages

EXECUTIVE

DESKS

In main banking room . . . paneling is also in walnut.

comes from square bronze and satin finished white metal fixtures applied flush to the ceiling.

The main floor area covers 10,000 square feet.

Safe deposit customers' area has bleached Oak paneling. There is a specially designed bronze and glass sliding door leading to the vault itself.

The mezzanine floor, comprising approximately 3500 square feet, is reserved for installment loans, personal loans, automobile loans, and facilities for the credit department, and new business department. Of special interest are the four different pastel colors on the various walls.

Two elevators service the building.

In addition to the refrigeration unit, a precipitron electric air cleaner has been installed. The air is taken from the building and pumped through filter baffles which eliminates all dust particles, and smoke.

Crocker First National Bank opened its Oakland office March 1, 1947, when it consolidated with the Farmers and Merchants Savings Bank, a well-known and respected banking name in Oakland for many years. The pioneer Western financial institution quickly outgrew the former Farmers and Merchants Savings Bank building and had to acquire larger quarters.

The bank moved to temporary offices, and the former Farmers and Merchants site was retained and additional property secured, so that a modern banking structure could be erected. Demolition of the old bank building was completed in three months, and construction of the new building got underway January 2, 1951.

George W. Hall, vice president and manager of the Oakland office, has been associated with the bank since 1915. A native of Alameda, Hall, in addition to his banking activities, has long been associated with the civic development of the East-bay.

Bank customers enjoy convenient courtesy parking directly across the street from the main entrance of the bank.

Crocker First National Bank was established in 1870 when the First National Gold Bank of San Francisco was chartered with deposits of less than $100,000. It was the first and only national bank

Lunch Room and Roof Gorden for use of Employees.

CROCKER
FIRST NATIONAL BANK
Oakland, California

The following firms, participants in the construction of the new Crocker First National Bank, have display advertisements in this issue:

General Contractor: Dinwiddie Construction Co.
Fixtures & Cabinet Work: Mullen Mfg. Co.
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(See Page 47)

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Albert R. Williams, President; Donn Emmons, Vice-President; William Corlett, Secretary; Bernard J. Sabaroff, Treasurer. Helen H. Ashton, Office Sec., Offices 369 Pine Street, San Francisco.

SAN DIEGO CHAPTER

The September meeting was devoted to a discussion of Earthquake Problems with Harry W. Bolin, Principal Structural Engineer, State of California, Division of Architecture, the speaker.

Bolin recently attended the Centennial of Engineering conclave in Chicago where considerable attention had been focused on the recent earthquakes in California. Prior to going to Chicago, Bolin had made a personal study of the Tehachapi and Bakersfield areas and reported on his findings of earthquake damage done there.

Jack Lewis served as Program Chairman for the meeting.

WASHINGTON STATE CHAPTER

October was the start of the fall meetings and considerable attention was given to an analysis of the Chapter's objectives and coming programs.

The annual bowling league started its new schedule with twelve teams, two new teams representing the firms of Jones & Bindon, Architects, and Bouillon & Griffith, Engineers, placing teams in the league for the first time. Competition this year is extremely keen and averages to date are on the whole much higher than last year. Leader in individual statistics to date is Richard Parker with a 189 average. Joe Jackson with a 183 is second high man.

New Members: Junior and Student memberships include James E. Hussey, Robert A. Bennighof, James Greco, and Carelton Tollefson. Robert M. Jones, and Arnold C. Amundsen, Jr. Associate Membership, Harold J. Nesland.

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Spokane Chapter:
B. K. Ruehl, President; Victor L. Wulff, 1st Vice-President; Philip Keene, 2nd Vice-President; Laurence G. Evanoff, Secretary, and Carroll Martell, Treasurer. Office 515 American Legion Bldg., Spokane, Washington.

Tacoma Society:
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Hawaii Chapter:
Kenji Onodera, President, 3518 McCorriston St., Honolulu, T. H.; George J. Wimberly, Secretary, 315 Royal Hawaiian Ave., Honolulu, T. H.

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Charles W. Dennis, President. Joseph Scoma, Vice-President; Russell Pennell, Treas.; Camiel Van De Weghe, Sec. Offices 507 Howard Street.

Producers' Council—Southern California Chapter:
Bert Taylor, President, Pittsburgh Plate Glass Company; G. Robert Roden, Jr., Vice-President, Truscon Steel Company; Malcolm G. Lowe, Secretary, Natural Gas Equipment Inc.; Richard Seaman, Treasurer, W. P. Fuller & Company; Vern Boget, National Director, Gladding McBean & Co.

Producers' Council—Northern California Chapter (See Special Page).

Club have been considerably improved, and are now located at 507 Howard Street in San Francisco.

Classes for this Fall term are under direction of John Garth, Art in Architecture; and George A. Sedgwick, Structural Engineering for Architects.

NORTHERN CALIFORNIA CHAPTER

Chapter objectives, activities and programs for the next few months have been established by President Albert R. Williams, and various committee chairmen, and will be inaugurated with the November meeting.

Included among activities is the annual Honor Awards Program, cooperating with city officials in a number of planning projects, junior relations, and legislative.

Among the New Members are: William B. Fox, Henry V. Chescoe, John L. King, John E. Coyle, Jr., Henry Schubart, Jr., William F. Meaney, all Corporate members and John Cook, Walter Farmer, C. Morrison Stevens, Associate members; and James Johnson, Junior Associate Member.

SOUTHERN CALIFORNIA CHAPTER

Howard D. Mills, Western Vice-President of Lionel D. Edie & Company, Inc. of New York, spoke at the October meeting on the subject, "1953—The Pause That Refreshes." During the recent war, Mills served with the U. S. Treasury as Regional Director of its War Finance Division in Western and Southwestern States and Hawaii, and offered a wealth of observations on conditions throughout the West.

Also speaking on the same program was Dr. C. C. Trillingham who chose as his subject, "What Makes America Great?" Trillingham is Los Angeles County Superintendent of Schools and is Vice-Chairman of the California State Curriculum Commission.

Reports of the Yosemite Conference were also presented.

Ulysses Floyd Rible served as Program Chairman for the meeting.

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Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E. San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

"Trends in Structural Engineering" was the topic of an address by C. Earl Webb, Chief Engineer of the American Bridge Company, Pittsburgh, Penn., at the October meeting which was held at the Claremont Hotel in Berkeley.

Webb discussed the uses of various types of steel, together with the fatigue and welding of steel. He also outlined flame softening, high tensile bolts and painting.

The November meeting (November 6) will be devoted to a discussion of the Field Bill and subjects related to school house construction. Speakers include Francis Dunn, chairman Education Committee, State Assembly; Mrs. B. D. Bevil, president Congress of Parent-Teachers Association of California; and Mr. J. Merchant, president California Association of School Trustees.

NEW MEMBERS include Albert A. Fink, Baird Heffron, Dimitri P. Krynine, Louis I. Zagoren, and James Reynolds, Jr. JUNIOR MEMBERS, Edward A. Cederborg, James A. Dunlap, George L. Henderson, Thomas J. Lynch, Oleg V. Miram, and Daniel Shapiro.

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WALTER L. HUBER NOMINATED TO ASCE PRESIDENCY

Walter L. Huber, consulting engineer of San Francisco, has been nominated for the presidency of the American Society of Civil Engineers. Balloting will be by mail, with the result to be announced as soon as they are compiled.

Huber, a graduate of the University of California, has had a distinguished career in engineering particularly in hydraulic and structural projects. He has designed many important commercial buildings, including the Union Square underground garage in San Francisco.

AMERICAN SOCIETY FOR METALS—PUGET SOUND

The 1952-53 program of the Puget Sound Chapter began with a very interesting presentation of a subject which promises to become increasingly important to the metallurgists of today. Dr. Raymond Ward, with the General Electric Co. as Head of Metallurgical Research at Hanford, Washington, spoke on the topic "Metallurgy and Nucleonics—A General Concept."

Work in this field has been active for only a decade and many of the results of these efforts have been necessarily classified. Under the impetus of the war, atomic energy has become one of the largest businesses in the United States. After it became apparent in 1942 that a chain reaction

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Directors Harold P. King, Ben Benioff, Donald F. Shugart, Wm. T. Wright, Wm. T. Wheeler, Henry M. Layne and Joseph Sheffet. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

was possible, many of the problems subsequently encountered in the development of atomic energy were found to be metallurgical. Reactor requirements were severe and involved properties of metals not commonly needed by industry.

NORTHWEST ENGINEERING CENTENNIAL A SUCCESS

The recent Northwest Engineering Centennial at Portland, Oregon, which was sponsored by The Professional Engineers of Oregon, proved to be one of the most outstanding gatherings of engineers ever held on the West Coast.

SPEAKERS—J. M. White president Long-Bell Lumber Company, Longview, Washington (right) and Fred O. McMillan, national president of American Institute of Electrical Engineers and Head of the Electrical Engineering Department of Oregon State College, were participants in the Centennial conferences.

Attendance included many noted engineers from all parts of the nation, and technical and business discussions included many important phases of the engineering profession of today.

Speakers pointed out that mankind has reached a stage of scientific knowledge which will soon enmesh daily events with atomic development. American industrial and agricultural development has done more in a single span of life to benefit people, than has been done in all the world's previous history.

The conference was held in conjunction with the 100th anniversary of the founding of the first engineering society in this country, the American Society of Civil Engineers.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

The regular October meeting, Alexandria Hotel, Los Angeles, was devoted to "Operation Greenhouse" and "Project Snort." The former was an Atomic Energy Commission sound movie containing a sequence on the response of structures under blast forces, while the latter was a sound movie of the U. S. Naval Ordnance Test Station highlighting the Supersonic Naval Ordnance Research Tract.

Carl Heilbron, head of the SNORT Design Staff,

(See Page 33)

Architect: Stanley Fuller Davis

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PRODUCER'S COUNCIL PAGE

The National Organization of Manufacturers of Quality Building Materials and Equipment
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Edited by Phil Brown, OTIS ELEVATOR COMPANY.

INFORMATIONAL MEETING

On September 8, the regular monthly informational meeting at the Palace Hotel was presented by Byron Nelson of Arcadia Metal Products. This program was titled "The Arcadia Door" and consisted of very fine color film showing the application of sliding doors in the modern residence of today.

The program was concluded by a model demonstration showing the construction and installation arrangement of a sliding door and screen.

PRESIDENT'S CONFERENCE

The Annual President's Conference of the Producer's Council was held in St. Louis, Missouri on September 23 through September 25 at the Chase-Park Plaza Hotel.

Our Chapter was very ably represented by President Al West, who gave one of the eight addresses presented by Chapter Presidents. Al's topic, "Everyone is Getting Into the Act", more or less summed up the points brought out by the speakers that preceded him. Al made it quite clear that if it were not for the fact that everyone is getting into the act, the Producer's Council would not be in the fine shape it is in today.

In addition to the talks by the Chapter Presidents, there was the election of the officers of the National Organization, a work shop session for the Presidents where the internal working of the various organizations at the local Chapter level were discussed and a very excellent information meeting. It was the thought that this example could serve as a guide for the local Chapter Organization.

Highlights of this St. Louis meeting were a "get acquainted party" at the home of the National President, Mr. A. Naughton Lane; reports from the National Officers, and addresses given by Executives in the American Institute of Architects.

Mr. R. S. Hammond, Vice President, Johns-Manville Corporation gave an inspiring address entitled "Dignifying the Profession of Selling". It was pointed out by Mr. Hammond that as lawyers, doctors, and architects are professionals, so to are salesmen. He felt that this is particularly true of firms who have membership in the Producer's Council and it is in this organization, affiliated with the American Institute of Architects, where salesmen achieve and maintain a "Code of Ethics." Through their knowledge of their products, their application and their limitations, they have gained the confidence of those in the profession whose responsibility it is to specify quality products.

The results of the election for the officers for the National Producer's Council for the coming year are as follows:

President—Elliott S. Spratt, Hillyard Chemical Co.

First Vice President—R. S. Hammond, Johns-Manville Corp.

Second Vice President—William Gillett, Detroit Steel Products Co.

Secretary—Fred Hauserman, The E. F. Hauserman Co.

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WITH THE ENGINEERS

(From Page 31)

USNOTS discussed the development and construction of the supersonic Naval Ordnance Research Track.

Member W. M. Bostock gave a report on the recent Pacific Coast Building Officials Conference in Spokane, Washington, which he attended.

ENGINEERS AID IN BAKERSFIELD STUDY

Gordon DeSwarte, Charles Stickney, and Harold King of the Strucutral Engineers Association of Southern California; and Mac Perkins and Howard Carter of the Structural Engineers Association of Northern California, cooperated with the City of Bakersfield in making a safety survey of the earthquake damage to buildings resulting from the recent shocks.

Approximately one thousand buildings were examined and inspected by the group who subsequently made a report of their findings to city and county and other government officials.

ENGINEER IN TOKIO: George J. Kerekes is in Tokio, Japan, where he will remain about a year. He is acting as Chief Structural Engineer to the Planning and Design Branch, Headquarters, Far East Air Forces.

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STRUCTURAL ENGINEERS CONVENTION

(From Page 11)

training was the subject of a discussion led by Prof. L. M. K. Boelter, U.C.L.A. The panel discussing this problem included Prof. David M. Wilson, Prof. A. L. Miller, Prof. F. C. Lindvall and others.

Saturday morning was devoted to a consideration of association matters, action on committee reports and a meeting of the Board of Directors.

Golf matches, motion pictures, bridge and canasta, sightseeing trips to Palm Springs and adjacent areas, and dancing rounded out an entertainment program that contributed considerably to the success of the convention.

FEMINEERS

A "Guys and Dolls Fashion Show" highlighted the September meeting of The FEMINEERS, wives of members of the American Society of Civil Engineers, and the Structural Engineers Association of Northern California.

Fashions were presented thru the courtesy of Davis Schonwasser with the commentary by Nerice Fugate. The Dolls (models) were from the House of Charm, while the Small Fry (children) clothes were modeled by members' children.

Mrs. John Mitchell and Mrs. Frank E. McClure

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served as hostesses of the Day, while Mrs. August Waegemann was in charge of reservations. The meeting, attended by many Engineers, was held in the Elks Club, San Francisco.

ARCHITECT JOHN BOLLES HONORED AT CONFERENCE

The second annual Artists Equity Association Fine Arts Award was presented to John S. Bolles, San Francisco, at the Yosemite Park annual conference of the California Council of Architects.

The presentation for "distinguished service in the field of arts and architecture" was made by Glenn L. Stanton, Portland, Oregon, architect and President of The American Institute of Architects.

Among Bolles' recent works are the Hanna Center for Boys in Santa Rosa and the Ping Yuen Public Housing Project in Chinatown.

The award, a symbolic representation of "Prometheus and the Flame," was established by San Francisco Architect Donald Beach Kirby two years ago. It was sculptored in bronze by Gurdon Woods of San Francisco.

BERKELEY ARCHITECT APPOINTED

George A. Downs, associate professor of Architecture on the Berkeley campus of the University of California, has been appointed to one of the two

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directorships of the National Association of the Collegiate Schools of Architecture.

Downs, who has been with the University since 1947, is a member of the American Institute of Architects and the Bay Area's group of city planners, architects, and landscape designers.

AUSTRALIAN ARCHITECTS COMPETE FOR 1956 GAMES STADIUM

Organization authorities for the 1956 Olympic Games to be held in Melbourne, Australia, have announced a competition to select an architect for the main games stadium.

Architects registered in Australia have been invited to submit designs for a stadium to accommodate 125,000 persons.

The successful architect will be given the job of planning and constructing the stadium on the site of the Carlton Cricket Ground.

CALIFORNIA COUNCIL OF ARCHITECTS

(From Page 11)

that building volume has maintained a level almost equal with the first post war years, despite controls and the steel strike this spring.

The demand for new homes has decreased somewhat in some localities as the great home building boom of the past few years has satisfied the immediate demand. In other localities the demand for new homes is still on the increase. People are asking for something better in homes today, he said, and as the supply nears the demand, this requisite for a better built home will become more important to the builder.

More than 600 architects, their wives and guests attended this year's conference which was highlighted with technical sessions devoted to the subjects of "Lift Slab and Tilt-Up Construction," "Architecture Behind the Iron Curtain," and panel discussions on professional activities and organization plans and policies.

William Koblik, architect of Sacramento and president of the Council, presided at the business sessions assisted by Charles E. Fry of Los Angeles, Donald Beach Kirby of San Francisco, and Culver Heaton of Pasadena.

Of particular interest was the discussion on tilt-up and lift slab construction by C. Henning Vagtborg, president of Vagtborg Lift-Slab Corpn. of Los Angeles, West Coast licensee for use of the Youtz-Slick method developed by Southwest Research Institute of San Antonio, Texas; and F. Thomas Collins, Consulting Engineer. Growth of the method, economic factors and examples of construction were covered by the speakers.

Architecture Behind the Iron Curtain was the subject of a talk by Thomas H. Creighton, editor of Progressive Architecture. Creighton told of his

experiences and observations obtained during a recent visit to Europe.

Taking as his subject "Little Holes Sink Big Ships," Bert Stewart, Jr., field secretary of the National Automobile Club, with general offices in San Francisco, spoke on various phases of public relations as applied to the architectural profession.

The Women's Architectural League, under the general chairmanship of Mrs. Bolton White, participated in the conference and presented their activities at a Luncheon on Friday, with Charles Matchum, Regional Director of the A.I.A., presiding.

The conference closed with the Annual Sportsman's Dinner on Saturday evening at which members of the Producers Council of America are traditionally honored by the architects.

A program of special entertainment, sports events, and sight seeing trips rounded out the program which was under the general direction of C. Herbert Mullen, Sacramento, assisted by Frank L. Hope of San Diego.

Participating in arranging for this year's outstanding events were: Bourn Hayne, News; David H. Horn, Entertainment; Glenn Balch, Exhibits; Culver Heaton, Finance; Walter S. Stromquist, Grievance; Fred Swartz, Head Table; Victor Abrahamson, Junior Associates; Howard Noleen, Producers Council; John Bomberger, Programs; Lawrence Gentry, Reception; Warren Wright (assisted by Women's Architectural League), Reservations and Registrations; Frank Mayo, Rules and Resolutions; Mrs. Helen (Bolton) White, Women's Activities; and Wendell Spackman, Transportation.

WASHINGTON STATE HAS NEW ARCHITECTS

The following have successfully passed their examination to practice architecture in the State of Washington:

James E. Hussey, Robert A. Bennighof, James Greco, Carleton Tollefson, Robert M. Jones, Arnold C. Amundsen, Jr., LeRoy D. Anderson, William Y. Austin, Robert A. Bezzo, Wendell J. Bonner, Erling H. Bugge, David S. Bushnell, Donald C. Cochran, Sidney Cohn, Jack C. Fissell, William F. Foote, Richard B. Frazier, Herbert J. Haguewood.

Warren C. Heylman, James P. Jones, John E. Klapp, L. Andre Lamoreux, Donald H. Lindgren, Blaine McCool, Merle R. McEntire, Ibsen A. Nelsen, Robert T. Olson, Thor T. Osbo, William E. Paddock, Mark L. Pence, Gerald J. Peters, Earl L. Powell, Burr Richards, Maurice E. Smith, Roger J. Stewart and H. Clayton Young.

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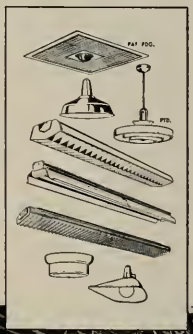

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of water damage for over two years.

"We have successfully stopped mold, fungus and a crumbling plaster condition with Thompson's Water Seal," reports Dve Press of the J & D Press Company, waterproofing experts.

Outer concrete walls were becoming pitted; inside walls and ceilings were moldy; fungus has formed and paper was peeling from interior surfaces; plaster was crumbling, and paint was peeling. "Two penetrations on the sides and rear wall of Water Seal were applied, two years ago," Press said. Since that time there has been no further trouble despite heavy rains and bad weather conditions. Thompson's Water Seal is manufactured by By-Chemical Products Company, San Francisco, with manufacturing plant in King City.

NEWS & COMMENT ON ART

(From Page 10)

Walter Heil, has announced the following schedule of exhibitions and events for October:

EXHIBITIONS: Contemporary Religious Art by California Artists, comprising subjects in Architecture, Painting, Sculpture, Metal Craft, Textiles and Mosaics; Society of Western Artists 13th Annual Exhibition, includes Oils, Watercolors and Sculpture; The Art of Tony Duquette—Painting, Theatre,

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Decor and Jewelry; Oils, Watercolors, Drawings and Erchings of Leonard Edmondson; and photographs of Italy by John Bertolino.

EVENTS: Classes in Art Enjoyment for adults (Saturday mornings and Wednesday afternoons) and the Painting Workshop (adults) Thursday and Saturday afternoons. Children's classes in elementary art, Form in Art and Nature and Picture Making are held Thursday afternoons, Friday afternoons and Saturday mornings.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, has arranged the following calendar of events for October:

EXHIBITIONS: American Vanguard for Paris; 16th Annual Watercolor Exhibition of the San Francisco Art Association; Rental Gallery; Standards of Illustration in Children's Books; Drawings of Korea, by Roger Stringham; French Prints from the Permanent and Loan Collections; Recent Works by Bay Region Artists; Watercolors from Permanent and Loan Collections; Everyone Can Dance—prepared by the Museum in collaboration with the Halprin-Lathrop Dance Studio; Photographs by Cedric Wright; and Photographs by Brett and Edward Weston.

SPECIAL EVENTS: Three concerts by Alice Ehlers, Harpsichordist, and Alex Murray, Violinist, in works of Bach and Mozart will be presented—October 22, 29 and November 5th at 8:20 p.m. Sunday lectures will be give nat 3 p.m., and another series of lectures will be given Wednesday's at 8 p.m.

Allon Schoener will present two lectures, October 20 and 27 at 8 p.m. on The Crafts and 20th Century Art and Life, and The Art of Pottery.

Classes in art include Art for the Layman — Tuesday mornings at 10; Sketch Club, Friday evenings at 7:30; Painting Classes, Friday evenings at 7:30; and Children's Class each Saturday morning at 10 o'clock.

CITY OF PARIS

The Rotunda Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, presents a group exhibition of Paintings and Sculpture by Fifty-five Artists of the Rotunda Circle during October.

There is a wide variety of objects covered in the exhibition.

AGAINST PUBLIC HOUSING—Voters in Columbia, Mo.; Akron, Ohio; and Cleburne, Texas, recently turned down public housing by about two to one. The Toledo, Ohio, City Council repealed an ordinance authorizing public housing there.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

LABORATORY DESIGN FOR HANDLING RADIOACTIVE MATERIALS—Proceedings. Building Research Advisory Board, 2101 Constitution Ave., Washington, D. C. Price $4.50.

Is a symposium, conducted by the Building Research Advisory Board and sponsored jointly by The American Institute of Architects and the Atomic Energy Commission, and released by the AEC.

The report contains a number of photographs, graphs, and charts and is divided into 5 major subjects 1) Architectural Introduction to Radiochemical Laboratory Layout, 2) Air Supply and Exhaust in Laboratories Handling Radioactive Materials. 3) Control and Shielding of Isotopes in Radioactive Laboratories, 4) Surfaces and Finishes for Radioactive Laboratories, and 5) Disposal of Radioactive Wastes.

The growing use of radioisotopes in industry, agriculture, and medicine is giving this subject widespread importance among architects, engineers, and manufacturers.

RICHEY'S REFERENCE HANDBOOK—For Builders, Architects, and Construction Engineers. By H. G. Richey, 1328 N. Rendon St., New Orleans, La. Price $10.00.

The author, District Engineer (Retired) Construction of Public Buildings, U. S. Treasury Department, has had sixty years experience in the construction industry including artisan, contractor and builder, and architect. Thirty-eight years were spent in Government service as superintendent of construction, construction engineer, and district engineer supervising the construction of Federal public buildings, and other works.

The book offers an everyday reference for architects, Engineers, Builders, Building Inspectors, and students; contains a vast amount of information on actual construction problems.

Contains 1385 pages, numerous tables, diagrams and illustrations.

RULES FOR FIELD WELDING OF STEEL STORAGE TANKS. American Welding Society, 33 W. 39th St., New York. Price 50 cents.

A new, 1952 edition, which includes provisions for the use of automatic welding in the fabrication of storage tanks for storing liquids at not over 15 psi gage pressure.

The existing rules have been revised to cover the qualifications of welding procedures and welding operators for automatic welding and related requirements throughout.

Provision is also made for the use of low-hydrogen electrodes for manual arc welding. The requirements for manual welding have been reviewed and brought up to date.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

414. INDUSTRIAL INSULATIONS. Industrial Insulation Products is the subject of a new catalog published by the Baldwin-Hill Company. This illustrated catalog describes insulating materials which cover the complete temperature range from 150° F to 1800° F. Insulating cement, block, blanket, felt, and pipe covering are a few of the products shown in the catalog. Complete with thermal-conductivity graphs and heat loss charts. Brief application descriptions together with typical uses, sizes, packaging, and densities are also a part of the catalog. 20 pages, illus., 8/52.

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415. INSULATING ROOF DECKS. Actual comparative costs and weight analyses of 6 roof-deck designs are found in this new booklet prepared by F. E. Schundler & Company, Inc., manufacturers of lightweight Coralux Concrete aggregates. Prepared under the supervision of Levon Seron, A.I.A., this booklet should be particularly helpful when designing or considering insulating roof-decks. In addition to the six descriptive design illustrations it provides an itemized cost breakdown and comparative weight per square foot for each design. A.I.A., 4 pages, 10/52.

416. SHEATHING FOLDER. An illustrated folder on its Weather-Shield Gypsum Sheathing is being offered by Certain-teed Products Corporation. The folder points up the fire-resistant

and ageless qualities of Weather-Shield Sheathing, and lists the advantages that builders and home owners enjoy when this product is used. Typical installations shown in the folder include a gypsum sheathed home which came through a flood practically undamaged. 6/52, illus.

417. STEELTEX FLOOR LATH. A brochure covering the specifications and installation of Pittsburgh Steeltex Floor Lath is available. The brochure covers specs for floor lath over steel joists for floors and roofs, floor lath over concrete joists for floors and roofs as well as test data and safe load scales with complete computations showing how these figures were determined. Installation details are included. A.I.A., 4-E-2, 12 pages illus., 7/52.

418. STAINLESS STEEL. Sharon Steel Corporation has available a new booklet that helps take much of the mystery out of the use of straight chromium type stainless steels. It includes detailed fabricating instructions, and illustrations of straight-chrome stainless gutters and downspouts in use for many years. 12 pages, illus., 8/20/52.

419. THIN SET GENUINE CLAY TILE. A brochure showing all of the advantages of MIRACLE Adhesive Products for Thin Set Genuine Clay Tile has been released. Covered in this publication are specifications, installation procedure, results, job illustrations, job details and instructions for setting tile by the Miracle Thin Set Method, for wall tile, floor tile and ceilings. The brochure is well organized for daily use. A.I.A. 23-P, 20 pages illus., 10/52.

420. HIGH PRESSURE AIR DIFFUSERS. A bulletin recently issued by the W. B. Connor Engineering Corp., illustrates and describes the company's several types of high pressure dif.-fusers These units are made to handle static pressures ranging from 1 to 4 inches water gauge, duct velocities up to 3,000 FPM, and 25 degree temperature differentials. Unlike conventional low pressure systems where a slight variation from designed duct pressures can cause serious changes in air delivery, high pressure systems can be balanced even where there are extremely wide variations in air delivery or changes in requirements from design of 25 to 400 per cent. Air volumes are precisely regulated from full open to completely closed positions by the unit's calibrated damper. Bull. K-29, 4 pages, illus., 10/52.

421. TROUBLE FREE SASH MAINTENANCE. Problems and suggested methods for the economical maintenance of steel and wood sash are outlined in "Trouble Free Sash Maintenance," an attractively illustrated bulletin released by the Tremco Manufacturing Company. Subjects discussed include the importance of making buildings tight and draft-free before winter; a comparison of putty and mastic glazing for windows; the value of caulking openings between sash and masonry; samples of colors in glazing compound which does not require painting; methods of painting rusted sash without removing rust; "weathering" of warped ventilators. A.I.A., 26-B-2, 4 pages illus. 3/52.

422. ARCHITECTS GUIDE FOR KENTILE. Architects, builders, flooring dealers and others who may be called upon to specify an appropriate type of resilient tile flooring for any specific installation will find much valuable information in a reference guide made available by Kentile. This publication covers in detail all uses for which each type of resilient tile is recommended and for which it is not recommended. Specific information is given for Kentile asphalt tile, Kencork cork tile, Ken-Rubber rubber tile and Special Greaseproof Kentile. The guide covers right and wrong uses of Kentile products in kitchen, bathroom, bedroom, nursery, livingroom, foyer and basement room. It indicates recommended and not recommended use of resilient tile in such commercial installations as office working areas, private offices, hospital wards and corridors, schools and public buildings, libraries, stores, restaurants and factories. A.I.A., 23-D, 4 pages, illus., 8/52.

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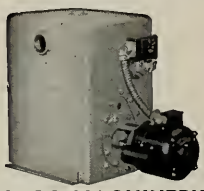

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MUNICIPAL PLANNING

(From Page 19)

concrete beams along each side of the building which rest on corbels poured as part of the columns. Columns, roof beams, corbels and horizontal beams were all poured together. The effect is a rigid concrete ribbed frame. A travelling electric crane rides along rails which rest on the horizontal beams. The building has a clearance to the bottom of the concrete roof beams of 28 feet. Six 12 by 12 foot sliding doors between bays, and one 15 by 20 foot door in the end of the last bay enable the machinists to bring in any equipment operated by the system. A single-story area along one side of the structure houses small machines, lathes, work benches, grinders and other equipment and is free of the crane area.

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Traffic to and from various buildings was a problem. Customer traffic into the site has been engineered so that it will not interfere with service and repair trucks and equipment approaching or leaving warehouse, shops, office building, steam plant or other operating units on the site. The problem was to make this as near a self-sufficient utility operating system headquarters as modern engineering and planning could create.

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Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88
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Common (all brands, paper sacks), carload lots, $3.55 per bbl. f.o.b. car; delivered $3.60.		
Per Sack, small quantity (paper)		$1.05
Carload lots, in bulk per bbl.		3.55
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.		
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10 to 100* yards	11.00
100 to 500 yards	10.50
Over 500 yards	10.30
Curing Compound, clear, drums, per gal.	1.03

* Delivered to site.

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches, each	$ .19	$ .19
6x8x16-inches, each	.23	.235
8x8x16-inches, each	.27	.27
12x8x16-inches, each	.38	.40
12x8x24-inches, each	—	.60

Haydite Aggregates—

¾-inch to ⅜-inch, per cu. yd	$7.75
⅜-inch to ⅛-inch, per cu. yd.	7.75
No. 6 to 0-inch, per cu. yd.	7.75

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrane waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet.

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings: $300 on old buildings.

FLOORS—

Asphalt Tile, ⅛ in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—⅛"—$3.00 sq. yd.
Terazzo Floors—$2.00 per sq. ft.
Terazzo Steps—$2.50 per lin. ft.
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Floor..g—T & G—Unfin.—

	⅝x2¼	½x2	⅜x2	¼x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅔ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

⅝ x 2¼ First Grade	$390.00
⅝ x 2¼ 2nd Grade	365.00
⅝ x 2¼ 2nd & Btr. Grade	375.00
⅝ x 2¼ 3rd Grade	240.00
⅝ x 3¼ 3rd & Btr. Jtd. EM	380.00
⅝ x 3¼ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer Wage $2.60 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.50 per □ ft.
¼ in. Rgh. Wire Glass	.80 per □ ft.
⅛ in. Obscure Glass	.44 per □ ft.
⅛ in. Obscure Glass	.63 per □ ft.
⅛ in. Heat Absorbing Obscure	.54 per □ ft.
¼ in. Heat Absorbing Wire	.72 per □ ft.
⅛ in. Ribbed	.44 per □ ft.
¼ in. Ribbed	.63 per □ ft.
⅛ in. Rough	.44 per □ ft.
¼ in. Rough	.63 per □ ft.
Glezing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Average, $3.50 to $4.00 per sq. ft. of radiation, according to conditions.
Warm air (gravity) average $64 per register.
Forced air average $91 per register.

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness
(3½") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 95.00

Flooring—

	Per M Delvd.
V.G.-D.F. 8 & 8tr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry, 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-515 ..... $135.00
½-inch, 4.0x8.0-515 ..... 219.00
¾-inch, per M sq. ft. 292.00
Plyscord ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to lay shakes,— 8.00 per square

Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—

(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—

Standard.
D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patent screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.
For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Three-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Wholesale Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Spirits	Gum Spirits
Light iron drums ..... per gal.	$1.65	
5-gallon cans ..... per gal.	1.76	
1-gallon cans ..... each	1.88	
Quart cans ..... each	.54	
Pint cans ..... each	.31	
½-pint cans ..... each	.20	

Pioneer White Lead in Oil Heavy Paste and All-Purpose (Soft-Paste)

Net Weight Packages	List Price Per 100 lbs.	Pr. per pkgs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead—Red Lead In Oil

Price to Painters—Price Per Products	100 lbs.	50 lbs.	25 lbs.
Dry White Lead	$26.30	$	$ .....
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Seilings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only)	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LiLime—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
⅝"—29c per sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply. ... $13.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $16.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per square.. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M. $240.00
Standard, 8-in. per M. 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless, (unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft... 1.85

STEEL—STRUCTURAL—

$290 per ton erected, when out of mill.
$350 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.

¼-in. Rd. (Less than 1 ton) per 100 lbs. $8.90
⅜-in. Rd. (Less than 1 ton) per 100 lbs. 7.80
½-in. Rd. (Less than 1 ton) per 100 lbs. 7.50
⅝-in. Rd. (Less than 1 ton) per 100 lbs. 7.25
¾-in. & ⅞-in. Rd. (Less than 1 ton) 7.15
1-in. & up (Less than 1 ton) 7.10
1 ton to 5 tons, deduct 25c.

STORE FRONTS—

Individual estimates recommended. See ESTIMATORS DIRECTORY for Architectural Veneer (3), and Mosiac Tile (3S).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅜" ..... $ .18 - $ .35 sq. yd. Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Linoleum tile, per □ ft. ..... $ .65
Rubber tile, per □ ft. ..... $ .55 to $ .75

Furring Tile	F.O.B. S. F.
Scored	$ .17
12 x 12, Each	

Kraftile: Per square foot	Small Lots	Large Lots
Patio Tile—Niles Red	$ .40	$ .36
12 x 12 x ⅞-inch, plain	.44	.39
6 x 12 x ⅞ inch, plain	.46	.42
6 x 6 x ⅞-inch, plain		

Building Tile—
8x5½x12-inches, per M. $139.50
6x5½x12-inches, per M. 105.00
4x5½x12-inches, per M. 84.00

Hollow Tile—
12x12x2-inches, per M. $146.75
12x12x3-inches, per M. 156.85
12x12x4-inches, per M. 177.10
12x12x6-inches, per M. 235.30
F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings *(3) refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (1)
Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(35)

AIR CONDITIONING (2)
Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58: 4851 S. Alameda St.
San Francisco: 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (3)
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259
THE CAMBRIDGE TILE MFG. CO. *(35)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601 Franklin Building
Pasadena 8: P. O. Box 186. East Pasadena Station
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834

BANKS - FINANCING (4)
CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery Sts., EX 2-7700

BATHROOM FIXTURES (5)
Metal
THE CAMBRIDGE TILE MFG. CO. *(35)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(35)

BRASS PRODUCTS (6)
GREENBERG'S, M. & SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK (7)
Face Brick
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
REMILLARD-DANDINI CO.
San Francisco 4: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (8)
GREENBERG'S, M. & SONS *(6)

BUILDING PAPERS & FELTS (9)
ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Blvd.
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY
San Francisco 5: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (9a)
THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (10)
PACIFIC PORTLAND CEMENT
San Francisco 4: 417 Montgomery St., GA 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

CONCRETE AGGREGATES (11)
Ready Mixed Concrete
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond: 26th & B. St. - Yd. 2, RI 4307

DOORS (12)
Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
F. M. COBB CO.
Los Angeles & San Diego
SOUTHWESTERN SASH & DOOR
Phoenix, Tuscon, Arizona
El Paso, Texas
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN DOOR CO.
(See above)

FIRE ESCAPES (13)
MICHEL & PFEFFER IRON WORKS, INC.
South Linden & Tanforan Ave.
South San Francisco: JU 4-8362

FIREPLACES (14)
Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St., PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (15)
Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(35)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
San Francisco: 470 Alabama St., MA 1-7766
Los Angeles: 923 E. 3rd, TR 8282
Seattle: 3440 E. Marginal Way
Diversified (Magnesite, Asphalt Tile, Composition, Etc.)
LE ROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (composition)
LE ROY OLSON CO.

GLASS (16)
W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Ore.

HEATING (17)
S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 N. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
UTILITY APPLIANCE CORP. *(2)
Electric Heaters
WESIX ELECTRIC HEATER CO.
San Francisco 5: 390 First St., GA 1-2211
Los Angeles: 520 W. 7th St., MI 8096
Portland: Terminal Sales Bldg., BE 2050
Seattle: Securities Bldg., SE 5028
Designer of Heating
THOMAS B. HUNTER
San Francisco 4: 41 Sutter St., GA 1-1164

INSULATION AND WALL BOARD (18)
LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY *(9)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Stockton: 733 S. Van Buren, ST 4-9421
Sacramento 1331 - T St., HU 1-0125
Fresno: 434 - P St., FR 2-1600

IRON—Ornamental (10)
MICHEL & PFEFFER IRON WORKS, INC. *(13)

LANDSCAPING (20)
Landscape Contractors
HENRY C. SOTO CORP.
Los Angeles: 13,000 S. Avalon Blvd., ME 4-6617

LIGHTING FIXTURES (21)
SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (22)
Shingles
LUMBER MANUFACTURING CO. *(18)

MARBLE (23)
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (24)
PACIFIC COAST AGGREGATES, INC. *(11)

MILLWORK (25)
LUMBER MANUFACTURING COMPANY *(18)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles, 6820 McKinley Ave., TH 4196

PAINTING (26)

Paint
W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim
PACIFIC COAST AGGREGATES, INC. *(11)

Exteriors
PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio

THE SCOTT COMPANY *(17)

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows

DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGEGATES, INC. *(11)

Fire Doors

DETROIT STEEL PRODUCTS COMPANY

Skylights

DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)

HERRICK IRON WORKS *(33)

SAN JOSE STEEL CO. *(33)

COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800

GLADDING, McMEAN & CO. *(3)

KRAFTILE
Niles, Calif.: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

TIMBER—REINFORCING (36)

Trusses

WYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber

J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)

GLADDING, McBEAN & CO. *(3)

KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (September 1, 1952.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.25	$2.75	$2.25	$2.25	$2.25
BOILERMAKERS	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68					
BRICKLAYERS	3.25	3.25	3.25	3.00	3.25	3.00	3.45	3.25	3.00	3.00	2.75	3.00	3.00
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.45	2.45	1.94	1.94	1.94	1.94	1.94
CARPENTERS	2.60	2.60	*2.39	*2.39	*2.39	*2.39	*2.39	*2.39	2.57	2.57	2.57	2.57	2.43
CEMENT FINISHERS	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	2.57	2.57	2.57	2.57	2.57
ELECTRICIANS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.75	2.75	2.75	2.75	2.75	2.75
ELEVATOR CONSTRUCTORS	2.75	2.70	2.65	2.75	2.915	2.915	2.915	2.915	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.25	2.30	2.30	2.30	2.16	2.16	2.16	2.16	2.12
IRONWORKERS: ORNAMENTAL	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.70	2.70	2.70	2.70	2.70
REINF. RODMEN	*2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.38	2.38	2.38	2.38	2.38
STRUCTURAL	*2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
LABORERS: BUILDING	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
CONCRETE	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
LATHERS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.8125	3.125	3.125	3.125	3.125	3.125
MARBLE SETTERS	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.40	2.40	2.40	2.40	2.4.
PAINTERS	**2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.38	2.56	2.425	2.22	2.22
PILEDRIVERS	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	2.56	2.38	2.38	2.38	2.38
PLASTERERS	3.175	3.165	3.125	3.125	3.00	3.00	3.125	3.00	3.125	3.125	3.125	3.125	3.125
PLASTERERS, HODCARRIERS	2.60				2.50	2.50		2.50	2.875	2.75	2.30	2.00	2.00
PLUMBERS	2.90	2.90	2.875	2.75	2.75	2.75	2.75	2.75	2.90	2.90	2.90	2.90	2.90
ROOFERS	2.50	2.50	2.50	2.25	2.50	2.50	2.50	2.50	2.65	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.475	2.475	2.3125	2.43	2.50	2.50	2.40	2.415	2.475	2.475	2.175	2.00	2.475
SPRINKLER FITTERS	2.75	2.70	2.70	2.625	2.625	2.625	2.75	2.75	2.75	2.25	2.25	2.25	2.75
STEAMFITTERS	2.75	2.90	2.90	2.75	2.625	2.625	2.75	2.75	2.90	2.90	2.90	2.90	2.90
TRUCK DRIVERS—½ Ton or less	1.89	1.99	1.99	1.89	1.89	1.74	1.89	1.89					
TILESETTERS	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.65	2.65	2.65	2.65	2.65

* 6 Hour Day. ** 7 Hour Day. *** Before C.I.S.C for 15c increase.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

CROCKER BANK

(From Page 27)

country with deposits of $97,000,000.

The Farmers and Merchants Savings Bank of Oakland was founded in 1892, and continued to be owned by the same interests until the consolidation with Crocker First National Bank in 1947. Assets of the bank today are in excess of $400,000,000.

Both Wm. W. Crocker, chairman of the Board of Directors, and James K. Moffitt, chairman of the Executive Committee, are descendents of the founders of the parent institutions of the Crocker First National Bank.

Crocker succeeded his father, the late Wm. H. Crocker, as president in 1936, and was elected chairman of the Board in 1950. Moffitt is the son of James Moffitt, one of the founders of the First National Bank of San Francisco, California's oldest national bank, and one of the parent institutions of Crocker First National Bank.

J. F. Sullivan, Jr., who became president of the bank in 1950, is the son of Jeremiah F. Sullivan, famous San Francisco jurist.

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Harold B. Hammill, Consulting Civil Engineer, has announced the removal of offices from 381 Bush Street, San Francisco, to 417 Market Street, same city.

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Registered ARCHITECT, residential and commercial, 17 years experience, seeks association with medium sized firm. Independent work, design, specifications, supervision, client contact. BOX J-3, Architect & Engineer, 68 Post Street, San Francisco, Calif.

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

EDUCATION BUILDING, Oakland, Alameda County. Neighborhood Church, owner. 2 stories, $230,013. ARCHITECT: Cecil S. Meyer, Oakland. Type 3 concrete block construction, structural steel frame & wood interior. GENERAL CONTRACTOR: Indenco, Oakland.

DEFENSE HOUSING UNITS, Mountain Home, Idaho. Public Housing Administration, owner. 400 units, administration building, $1,987,000. ARCHITECT: French, Jones and Laflin, San Francisco. Pre-fab construction dwelling units. GENERAL CONTRACTOR: C. H. Elle and K. H. Vitt Construction Co., Pocatello, Idaho.

AVALON ELEMENTARY SCHOOL ADDITION, So. San Francisco, San Mateo County. So. San Francisco Unified School District, owner. 7 classrooms & toilet rooms, $116,575. ARCHITECT: John Lyon Reid, San Francisco. Frame & stucco construction. GENERAL CONTRACTOR: Pacific Coast Bldrs., San Francisco.

HIGH SCHOOL AUDITORIUM BUILDING, St. Helena, Napa County. St. Helena Unified School District, owner, $182,916. ARCHITECT: James H. Mitchell, San Francisco. Frame & stucco construction, laminated roof trusses. GENERAL CONTRACTOR: North Bay Construction Co., Santa Rosa.

JUSTICE BUILDING, Anaheim, Orange County. Orange County Board of Supervisors, owner, $92,292. ARCHITECT: Wildman & Faulkner, Santa Ana. 5000 sq. ft. GENERAL CONTRACTOR: C. R. Young & Sons, Anaheim.

LOS LOMAS SCHOOL, Walnut Creek, Contra Costa County. Acalanes Union High School District, owner. 6 classrooms, multiuse, music, cafeteria, kitchen, dining, assembly rooms, $244,700. APCHITECT: Kump Assocs., San Francisco. Frame & stucco construction and frame & redwood exterior, pile foundations, concrete floors. GENERAL CONTRACTOR: Pacific Coast Bldrs., San Francisco.

PERMANENTE HOSPITAL, Walnut Creek, Contra Costa County. Permanente Foundations, owner. 75 beds, $1,000,000. ARCHITECT: Clarence W. Mayhew, San Francisco. Reinforced concrete construction, 1 story, 29,000 sq. ft., metal stud, lath & plaster, steel sash, composition roofing; CLINIC BUILDING: frame & stucco construction. GENERAL CONTRACTOR: California Builders Co., Oakland.

LOW RENT HOUSING PROJECT, West Los Angeles, Los Angeles County. Housing Authority of the City of Los Angeles, owner. 601 dwelling units, 2 story buildings, $...-195,000. ARCHITECT: Albert Criz, Los Angeles. Cement block and wood frame and stucco construction, composition roofing, cement slab and asphalt tile first floor, oak second floor, steel sash, sheet metal work. GENERAL CONTRACTOR: The Bein Construction Co., Beverly Hills; R. J. Daum Construction Co., Inglewood.

CHURCH & PARISH HALL, San Lorenzo, Alameda County. Roman Catholic Archbishop of S. F., owner. St. Felicitas Parish, $117,733. ARCHITECT: George J. Steuer, San Leandro. Frame & stucco construction. GENERAL CONTRACTOR: Samson & Lindner, Oakland.

DEFENSE HOUSING TRAILER PROECT, Pleasanton, Alameda County. Public Housing, San Francisco, owner, $241,441. ARCHITECT: W. D. Peugh, San Francisco. GENERAL CONTRACTOR: Campbell Construction & Equipment Co., San Francisco.

NEW FAIR OAKS ELEMENTARY SCHOOL, Redwood City, San Mateo County. Redwood Elementary School District, owner. 6 classrooms, administration, kindergarten. multi-purpose, kitchen and toilets, $169,204. ARCHITECT: Angus McSweeney, San Francisco, frame and stucco construction. GENERAL CONTRACTOR: Achterman & Oleson, San Jose.

PITTSBURG COMMUNITY HOSPITAL ADDITION, Pittsburg, Contra Costa County. Pittsburg Community Hospital, owner, $141,000. ARCHITECT: A. D. Stone & Lou Mulloy, San Francisco. 1 story, 8,000 sq. ft., frame and stucco construction. GENERAL CONTRACTOR: California Builders, Oakland.

OFFICE BUILDING, San Jose, Santa Clara County. California State Automobile Assoc., lessee. 1 story, 5,800 sq. ft., $54,512. ARCHITECT: Higgins & Root, San Jose. Frame and stucco construction. GENERAL CONTRACTOR: Fletscher & Peterson, San Jose.

DEPARTMENT STORE REMODEL, Vallejo, Solano County. Golden State Hall, owner, $133,000. ARCHITECT: Alvin Fingade, Oakland. ENGINEER: Edward P. Schwafel, Vallejo. Interior remodel and some exterior remodeling. GENERAL CONTRACTOR: J. A. Bryant, Vallejo.

BANK BUILDING, Canoga Park, Los Angeles County. California Bank, owner. 1

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story, 90 x 60 ft., $56,469. ARCHITECT: Albert E. Hansen, Los Angeles. Farm and stucco construction, composition roofing, steel roof girders, concrete and terrazo flooring, asphalt tile, plate glass and metal trim, ceramic tile. GENERAL CONTRACTOR: Seablom & Platt, Los Angeles.

OFFICE BUILDING ADDITION, San Jose, Santa Clara County. Insurance Company of North America, owner. Add 1 story to present 2 story building, about 60,000 sq. ft., $1,000,000. ARCHITECT: Wurster, Bernardi & Emmons, San Francisco. Reinforced concrete construction. GENERAL CONTRACTOR: MacDonald, Young & Nelson, San Francisco.

GYMNASIUM BUILDING AT HIGH SCHOOL, Fairfield, Solano County. Armijo Union High School District, owner. Gym, exercise rooms, classrooms, shower and locker rooms, drying, team, shower and locker rooms, suite drying rooms, laundry and boiler rooms and office, $500,000. ARCHITECT: Schmidts & Hardman, Berkeley. Reinforced concrete and steel frame construction. GENERAL CONTRACTOR: J. A. Bryant, Vallejo.

FACTORY, OFFICE & WAREHOUSE ADDITION, San Leandro, Alameda County. Western Waxed Paper Co., owner. Office 2,000 sq ft., warehouse 1 story 40,000 sq. ft., $350,000. ARCHITECT: Alben Froberg, Oakland. Frame and stucco and reinforced concrete and structural steel frame and galbestos exterior. GENERAL CONTRACTOR: Christense & Lyons, Oakland.

NEW Y.M.C.A. BUILDING, Sacramento, Sacramento County. Young Mens Christian Assoc., owner. Gymnasium and club rooms, $300,000. ARCHITECT: Herbert A. Goodpastor, Sacramento. 2 story, reinforced concrete construction, steel sash, gymnasium, shower and locker rooms. GENERAL CONTRACTOR: Holdener Construction Co., Erickson Construction Co., Lawrence Construction Co., Campbell Construction Co., Campbell Construction Co. (Joint Venture), Sacramento.

PAROCHIAL SCHOOL AND PARISH HALL, Sunnyvale, Santa Clara County. Roman Catholic Archbishop of S. F., owner. 8 classrooms, administration, toilet rooms, parish hall 600 seats, $235,500. ARCHITECT: Vincent G. Raney, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Elmo Pardini, San Jose.

MEDICAL DENTAL AND STORE BUILDING, San Francisco, San Francisco County. DESIGNER: Garo N. Dorian & Assoc., San Francisco. 12 suites, offices and 4 stores, 2 story, 80 x 90, frame and stucco construction and architectural porcelain exterior. GENERAL CONTRACTOR: B. L. Giusto, San Francisco.

TWO SCIENCE BUILDINGS, Inglewood, Los Angeles County. Centinela Valley Union High School District, owner, $217,580. ARCHITECT: Ralph C. Flewelling and Walter L. Moody, Los Angeles. Brick work, structural steel, steel sash, insulation, terrazzo work, asphalt tile work, composition roofing, metal doors, heating and ventilating. GENERAL CONTRACTOR: Hudson Construction Co., Los Angeles.

CHURCH AND PARISH HALL, San Pablo, Contra Costa County. Roman Catholic Archbishop of S. F., owner, $61,325. ARCHITECT: Vincent Raney, San Francisco. 5,000 sq. ft., wood frame and stucco construction. GENERAL CONTRACTOR: Chas. J. Shinn, Richmond.

DON BENITO ELEMENTARY SCHOOL, Pasadena, Los Angeles County. Pasadena Board of Education, owner. 2 kindergarten rooms, auditorium, administrative unit and clinic, 10 classrooms, $368,540. ARCHITECT: Frick & Frick, Pasadena. Frame and stucco construction. GENERAL CONTRACTOR: Stiglbauer Bros., Downey.

DOCTORS OFFICE BUILDING, Roseville, Placer County. A. G. Wolf, owner. 1 story, 21 x 80, $50,000. ARCHITECT: Clarence C. Cuff, Sacramento. Concrete block and Irome construction.

PAROCHIAL SCHOOL, Venice, Los Angeles County. Roman Catholic Archbishop of Los Angeles, owner. 12 classrooms, 105 x 34 ft., $179,321. STRUCTURAL ENGINEER: Laurence D. Viole, North Hollywood. Frame and qunite construction, composition roofing, concrete slab, rubber tile, asphalt tile floors, toilets metal partitions, skylights, drinking fountains, metal outswing and wood sash, stucco interior, concrete beams, ceramic tile floors, and wainscoting in toilets. GENERAL CONTRACTOR: Don S. Ely, Los Angeles.

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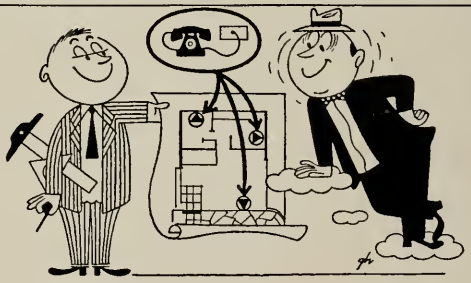

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IN THE NEWS

TUCSON AIRPORT PROJECT APPROVED BY COUNCIL

The Tucson City Council has approved a contract with Blanton & Coles, Tucson architects, for engineering work for a $133,000 runway rehabilitation project at the municipal airport at a fee of approximately seven per cent of the project cost.

PRESBYTERIAN CHURCH PLANNED FOR COLUSA

Preliminary drawings have been completed by architect Chas. F. Dean of Sacramento, for the construction of a new Presbyterian Church in the City of Colusa.

Estimated cost of the project is $100,000.

NAMED CHIEF ENGINEER

Jules I. Delattre has been named Chief Engineer for the Virginia Metal Products Corpn. of Orange, Virginia, according to an announcement by J. A. Patrick, president.

Delattre will supervise all engineering operations, and succeeds Chas. H. Gersley who becomes Plant Engineer.

SMALL HOMES COUNCIL OFFERS BUILDING AID

The University of Illinois Small Homes Council has just released two interesting instruction sheets covering the construction of the "W" roof truss and a closet-wall in residential construction.

The instruction sheet for the "W" truss, having a span 20'-8" to 32'-8", includes cutting diagrams, nailing schedule, design of data and a series of 23 sketches on how to build the truss.

The closet-wall instruction sheet shows basic closet units and their construction from thin wall panels of laminated hardboard and gypsum board. Copies of the material are available direct from the University.

ROY MATTOCK SAN FRANCISCO BUILDING EXCHANGE DIRECTOR

Roy Mattock, San Francisco and Peninsula general contractor, has been appointed a director of the San Francisco Builders' Exchange, succeeding Herbert Lemont.

Mattock is head of the Mattock Construction Company, San Francisco.

YOLO COUNTY HOSPITAL PLANNED FOR WOODLAND

The board of supervisors of Yolo county has authorized architect W. D. Peugh, AIA, of San Francisco, to draft plans and specifications for the construction of a new 120-bed addition to the Yolo county hospital in Woodland.

The new construction will include a clinic area; four psychiatric rooms; boiler room, and a kitchen, and will cost approximately $500,000.

OFFERS COURSES IN CONCRETE

The University of California extension's division of engineering, Los Angeles, has added three courses dealing with concrete construction to its roster of fall classes, starting September 9th.

Robert Field, Jr., of the architectural firm of Austin, Field & Fry, will conduct a course in architectural concrete, and during six weekly meetings will have as guest lecturers Ernest H. Lee, structural engineer; Kenneth Anderson, superintendent, James L. Barnes Construction Co.; and Charles D. Wailes, contractor.

A course in pre-cast concrete, and Tilt-up construction will be started October 21.

NEW TELEPHONE EXCHANGE

The Pacific Telephone & Telegraph Company are building d new telephone exchange building in Willits, California.

The building is to be of frame and stucco construction.

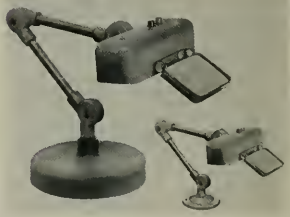
SANTA BARBARA UC COLLEGE

Construction on the first two permanent buildings on the new 408-acre seashore site of the Santa Barbara College of University of California has been started and according to University officials more than $1,941,500 will be expended for the initial units.

The buildings will be two stories in height and of steel re-enforced concrete construction. They will have 85,300 sq. ft. and comprise two wings.

ILLUMINATED MAGNIFIER BY STOCKER & YALE

A new portable high intensity fluorescent fixture designed primarily for industrial inspection, and producing intense but cool glare-free illumination with high magnification, has just been announced by STOCKER & YALE, Inc. Engineers & Manufacturers of Marblehead, Mass.



It is equipped with either a 2 or 4 power lens of 2" x 4" dimensions. The lens holder is hinged, offering complete versatility of use, with or without lens. Has either heavy portable cast base, or base for mounting on machine or bench. Available immediately through Electrical Wholesalers and Specialty Dealers.

ARCHITECTS SELECTED

The Board of Supervisors of Tulare county have selected the architectural firm of Horn & Mortland of Fresno, to draft plans for a new County Court House building to be built in Visalia, California.

CONSTRUCTION VOLUME REMAINS LARGE

Despite record levels of construction activity in recent years and a strong likelihood that the 1952 volume of the industry will establish yet a new high, there is still a tremendous backlog of needed construction, H. E. Foreman, managing director of The Associated General Contractors of America, reported at the mid-year meeting of the governing and advisory boards of the association in West Virginia recently.

While in various parts of the country construction activity has fallen off substan-

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tially, a number of areas are yet to be jolted by the impact of gigantic defense projects which will drain much of the surrounding manpower and materials.

LOS ANGELES HOME SHOW SETS RECORD

The recent 7th Annual Los Angeles Home Show, held in Hollywood Park, established a new national attendance record for such events, and was responsible for several million dollars worth of business, according to a report by Carl F. Kraatz.

More than 191,150 persons visited the Exposition during its 11-day run.

NEW MEDICAL CENTER IN EL PASO PLANNED

Architects Pereira & Luckman of Los Angeles are designing a new $1,000,000 medical center to be built on the outskirts of El Paso, Texas.

It will provide professional headquarters for seventy-five doctors and dentists and will comprise ten 1-story buildings located on a 22-acre site.

The buildings will be grouped around a central landscaped mall, with ample provision for parking.

FEED MILL AND WAREHOUSE

The Sperry Division of General Mills, has purchased a Feed Mill and Warehouse site near Stockton and will soon commence construction of a new $1,000,000 plant, according to an announcement by company executives.

ADDITION TO HOSPITAL

The architectural firm of Stone & Mulloy and S. P. Marraccini, Associates, San Francisco, is designing a 98-bed addition for the Sequoia Hospital in Redwood City.

Construction will consist of a 3-story, reinforced concrete, wing addition, estimated to cost $985,000.

TIN COOPERATIVE CHANGES NAME

The International Tin Research and Development Council recently announced that the name of the organization had been changed and would be known in the future as the International Tin Research Council.

The change in name will not affect the policy of the Council or alter its present activities.

NEW UNIT MT. SINAI HOSPITAL PLANNED

The first unit of the new Mt. Sinai Hospital, to be constructed on Beverly Blvd., Los Angeles, will comprise a contemporary structure containing 180 beds. The site is a 3½ acre one donated by the Levine Foundation.

The entire unit of the new Mt. Sinai Hospital has been designed by Welton Becket & Associates, architects and engineers, and Palmer, Krisel & Lindsay, associated architects and engineers.

LOW RENT HOUSING PROJECT FOR FRESNO

The Housing Authority for the City of Fresno is planning a 150-dwelling, low rent, project to be built in the City of Fresno.

Architects Robert W. Stevens, and Benjamin F. Lippold of Fresno have been commissioned by the housing authority to draw plans and specifications for a frame and stucco structure with plywood interior, insulation, and rigid asbestos shingle roofs.

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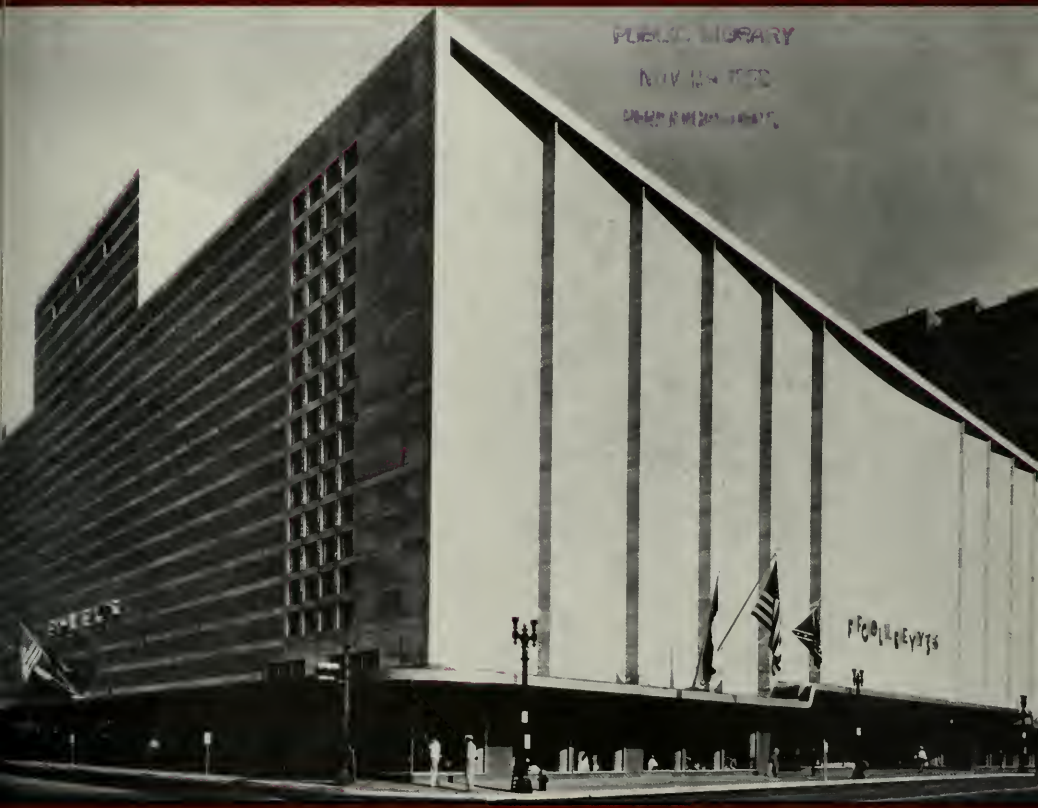
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Book Reviews

★

COVER PICTURE

FOLEY'S DEPARTMENT STORE
Houston, Texas

KENNETH FRANZHEIM, Architect

One of the newest and most modern store buildings to be built in the Southwest recently is the beautiful Foley's Department Store of Houston, Texas.

The outer appearance of this limestone structure has a clean, warm beauty of its own with the textural quality of the stone keeping the solid walls from appearing monotonous.

Interior design is of the most modern with the architect utilizing many new building materials to accomplish both customer appeal and occupancy utility.

ARCHITECT & ENGINEER is indexed regularly by ENGINEERING INDEX, INC.

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. EDITORIAL NOTES .

LANDOWNER EXTRAORDINARY

The feudal lords of the Middle Ages had nothing on Uncle Sam. He now owns 24 per cent of all the land in the United States, and is adding to his holdings by leaps and bounds.

The recent announcement of plans by the Federal Government to build an enormous atomic energy plant in Ohio prompted the Chamber of Commerce of the United States to look into Uncle Sam's real estate operations.

According to the latest available figures, compiled by Congressman Russell V. Mack (R., Wash.), the Federal land empire totals 455,146,726 acres, or 711,166 square miles. That is more land than there is in Japan, Italy, France, Germany, Belgium, The Netherlands, Switzerland, and Portugal put together.

The Government's holding represent an area equal to the combined area of Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, Delaware, New Jersey, Maryland, and the District of Columbia.

The big catch in Uncle Sam's operations as a landowner, however, is that Uncle Sam pays no state taxes . . . like you and I. All of which means that you pay not only your share of state taxes but you must pay more to make up for what the Federal Government does not pay. And, on top of that, you also pay out extra Federal taxes to support the Federal bureaus which manage the government's land holdings.

The line forms at the Right for those who want to pay more taxes to support Uncle Sam's housing program.

* * *

"The intellectual who cannot live any more as an independent producer comes to live as a salaried official, and is therefore induced to write his ideas into laws instead of writing them into books."—Bertrand de Jouvenel.

* * *

HOUSING RESEARCH REVOLUTION

What research has done in medicine, chemistry, physics and scores of other sciences to raise American health and living standards may be duplicated in the still unexplored field of modern housing.

The National Association of Home Builders took the first big step toward that goal recently with the formation of a "Home Builders Research Institute" to coordinate the scattered housing research now under way and to conduct practical field tests on new materials and techniques developed in university and industrial laboratories.

Creation of the new organization is expected to give tremendous impetus to all basic housing research and to speed up the technological revolution which has transformed home building since World War II from a handicraft to a $12-billion a year mass-production industry.

In addition to its own studies and field trials, the Institute will provide the nation's home builders with a central clearing house of information on new developments by governmental and private research organizations. It will also advise those organizations on practical problems faced by the home builders in order to guide their research into the most effective channels.

One of the Institute's primary functions will be to serve as a liaison group between building materials manufacturers and the builders who use their products, so that new ideas which have been tried and proven in the laboratory can be given full field test in "experimental homes" all over the country.

Housing research is a relatively new science. One of the early projects in the field being a limited program undertaken by the Housing and Home Finance Agency under provisions of the Housing Act of 1948. The 1949 and subsequent Housing Acts have expanded the program to include research in the social sciences and related fields—economics, mortgage finance, urban studies and local housing regulations — as well as building technology.

* * *

The National Association of Home Builders, whose members build an estimated 80% of the new homes erected in metropolitan areas, now have a membership of 22,588 in 179 different cities.

* * *

HEY! HAY!

President Truman has asked the federal Housing and Home Finance Agency to advance the tidy sum of $3,000,000 to the U. S. Department of Agriculture to be used for the purchase of hay for drought-stricken cattle.

We know governmental theorists are capable of strange reasoning, and, perhaps the logic of the federal Housing Agency engaging in the hay business is a throw-back to the dire situation related in the fable of the three little pig house-builders and the big bad wolf.

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NEWS and COMMENT ON ART

SAN FRANCISCO WOMEN ARTISTS' HOLD 27th ANNUAL EXHIBITION

The 27th Annual Exhibition of the San Francisco Women Artists opened to the public on Friday, November 14th, at the San Francisco Museum of Art.

Awards will be made to thirteen artists in categories of Painting, Sculpture, Decorative and Industrial Arts, and Photography.

The exhibition will continue through December 7.

CITY OF PARIS

The Rotunda Gallery of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, presented its annual International Orchid Show during November to a large audience. It was the second showing of this event and will undoubtedly be repeated again next year.

Exhibited during November was an unusual Cultured Pearl Exhibit, and a group of Portraits by Serge Ivanoff.

The Artists' Fair, featuring Christmas, is also being shown.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum in Golden Gate Park, San Francisco, under the direction of Walter Heil, scheduled a number of outstanding exhibitions and events during November.

Among Exhibitions was the 13th Annual Exhibit of the Society of Western Artists, featuring Oils and Watercolors; an Exhibit of Architecture, Paintings, Sculpture, Metal Craft, Textiles and Mosaics on Contemporary Religious Art by a number of California artists; and the 32nd Annual Exhibition of the California Watercolor Society.

In the special events department, classes in art for adults and children featured the month's activities. Classes for adults are conducted on Thursday and Saturday afternoon, while classes for children are scheduled each Thursday and Friday afternoon and Saturday morning.

SAN FRANCISCO MUSEUM OF ART

The San Francisco Musum of Art, War Memorial Building, Civic Center, offers the following exhibitions and events for November:

EXHIBITIONS. Thirty U. S. Contemporaries, paintings for Japan (This is an American Federation of Arts Exhibition); Six Canadian Painters; San Francisco Women Artists; Photographs by Minor White; Photographs by Cedric Wright; Recent Works of Bay Region Artists; Watercolors from Permanent and Loan Collections; Photographs by Brett and Edward Weston; Modernized Masters; and Latin American Paintings.

EVENTS: Include Concerts, "Art in Your Life" — television series; special lectures; and a number of Museum services. Adventures in Drawing and Painting, for adults; and Children's Saturday Morning Art Classes continue during November.

ANDRE GIRARD SKETCHES PRESENTED TO STANFORD

Andre Girard, noted French painter, has presented a set of fourteen pen and ink sketches to the Stanford University Library.

The sketches, depicting scenes of Christ's sentence, crucifixion, and burial, were the preliminary work for 2 x 7 ft. oil paintings which Girard executed on the walls of St. Ann's, the Newman Club chapel in Palo Alto. They are approximately one-half the size of the finished work.

The exhibit is entitled "The Way of the Cross".

ANNUAL SOCIETY OF WESTERN ARTISTS

Awards in the annual Society of Western Artists exhibit at the M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, were made to the following:

The $250.00 Anna Elizabeth Klumpke Memorial award was given to Paul Sarkisian for his "Sublime".

Oil Painting awards included Carolus Verhaeren — "Drifting", and Claude Buck — "Adventure's End". Receiving honorable mention were Earl Thollander, Ann K. Pennington, and Mary Miller.

Water Color awards were presented to Donald Teague—"Cockney and Rubble", Don F. Osterloh —"Tug's Approach", and Nat Levy—"Saved From the Grave". Honorable mention was given Ted Kline, Maurice Logan, and Rene Weaver.

ELECTED CHAIRMAN OF NORTHWEST ART GROUP

Priscilla Colt, Research and Program Assistant of the Portland Art Museum has been chosen Chairman of the Northwest Division of the American Society of Aesthetics.

Other members of the Executive Committee include, George N. Belknap, editor, University of Oregon; Prof. Paul J. Jackson, Whitman College; Sherman Lee, Curator of Oriental Art at the Cleveland Art Museum. The next annual meeting has been scheduled for May 1953 and will be held at the Portland Art Museum, Portland, Oregon.

JOINT INFORMATION COMMITTEE

AMERICAN INSTITURE OF ARCHITECTS and THE PRODUCERS COUNCIL, INC.

Originally the plan before the JOINT INFORMATION COMMITTEE of the A.I.A. and the PRODUCER'S COUNCIL for a CARD FILE SPECIFICATION SERVICE was to have been completed and put under way at the Washington, D. C. meeting of October 16-17. Enthusiasm has been generated on this constructive program both within the A.I.A. and the SPECIFICATION INSTITUTE as well as the PRODUCER'S COUNCIL. The committee was to go over a breakdown on the promotion pieces to be mailed to the Architects nationwide and the dummy cards plus a finished brochure for use in promoting the CARD FILE SPECIFICATION SERVICE.

The support behind this movement to improve the working aids available to the Architect was so sound that Cy Silling, A.I.A., has donated from his own funds $1500 to further the plan. Up to this point the original plan had encompassed the idea of providing a specification card service of predetermined shape and size which would be edited jointly by the A.I.A. and the SPECIFICATIONS INSTITUTE. These first cards were to include roughly 200 cards of specification in the various classifications which would be sponsored on invitation by both manufacturers and materials association. The specs of each of this type would be incorporated in the first bulk of the service for which the individual Architect would pay $10.00 each year.

At the October 16 meeting however a problem was found which seriously hampers speedy development of this service. Since there are approximately 41 divisions of the orginal A.I.A. Specifications system and many subdivisions under each one it was proposed that this be completed at the same time.

Immediately it was pointed out by Tyler S. Rogers, PRODUCER'S COUNCIL, that this would entail a tremendous amount of time and labor as well as cost. The committee discussed this new problem which appeared to present such a formidable question with estimates for individual specifications under the A.I.A. as re-written taking as long as 2 weeks for each one. At that rate it was easy to see that the program would never get under way simply because it would still be in the works within the life span of all those present. Or since this is obviously an exaggeration probably 2 or 3 years.

As a result of this discussion a sub-committee was formed to study this particular phase of the CARD FILE SPECIFICATION SERVICE problem. This committee is composed of Mr. Ebert, A.I.A. SPECIFICATION INSTITUTE, Mr. Tyler S. Rogers, PRODUCER'S COUNCIL and Mr. Walter Taylor, A.I.A., who will meet again on November 20 to discuss their findings towards a solution.

At this point we think that each individual Architect can help with some possible contribution of thought towards solving this problem by forwarding his opinion to the nearest Chapter headquarters or to the National Headquarters of the A.I.A. In looking at the whole as objectively as possible at this time we would like to suggest that "Rome was not built in a day," to steal a cliche, but that here is a case where reconsideration is in order. It seems entirely possible that somewhere along the line things have become transposed and the mouse is laboring to give birth to a mountain.

If the approach was made that this section of the A.I.A. specification section of the CARD FILE SPECIFICATION SERVICE was broken up into fourths with one fourth to be completed each year for the next four years it might reduce the size of the problem to workable proportions. Then it would be possible to set up a base revision policy set on the same four year cycle so that each fourth would be reviewed each 4 years and so keep all files current to building specification needs within any 4 year period. That is a layman's contribution; we are sure the Architect can do better.

NOTE: This news space is being contributed by ARCHITECT & ENGINEER Magazine to the JOINT INFORMATION COMMITTEE representing the Northern California Chapter of The American Institute of Architects and the Northern California Chapter of the Producer's Council, Inc., and is available to this Committee for the purpose of bringing to the attention of leaders within the Construction Industry various phases of the Architectural profession and building materials industry procedures for general consideration and comment. Your "ideas" and any suggestions for the better pooling of thoughts along these lines should be sent to "Joint Information Committee, c/o The Architect & Engineer. 68 Post Street, San Francisco," where they will be immediately forwarded to proper committee members.

A Stained Glass Craftsman

Horace T. Judson

Looks At The 20th Century

Since the middle ages stained glass windows have been a source of inspiration to the worshipper in the church or temple of his choice. Before printing made the Bible available to everyone, people could read its messages in the stained glass of great cathedrals and parish churches. These windows were called "Biblia pauperum" or books of the poor. In this connection it is interesting to note the renewed stress being given to visual education by our educators throughout the world during the 20th century.

The inspiration of the current spiritual Renaissance in religion so obvious throughout the United States is a challenge to the creative ability of contemporary craftsmen. It is their prayer that their ability may reflect the great magnitude of God's inspiration for it is the basis of their creed that spiritual inspiration is truly the composer, artist and author of immortal music, art and literature. They believe that the spiritual renascence of the American people is lifting us to a new and higher culture.

"FAITH" —

Cole Chapel Window

33 x 97½ inches

First Methodist Church
Denton, Texas

Bennett & Crittenden,
Architects

FIRST CONGREGATIONAL CHURCH
Los Angeles, California

"OLD TESTAMENT"

Transcript Window
13 x 27 feet

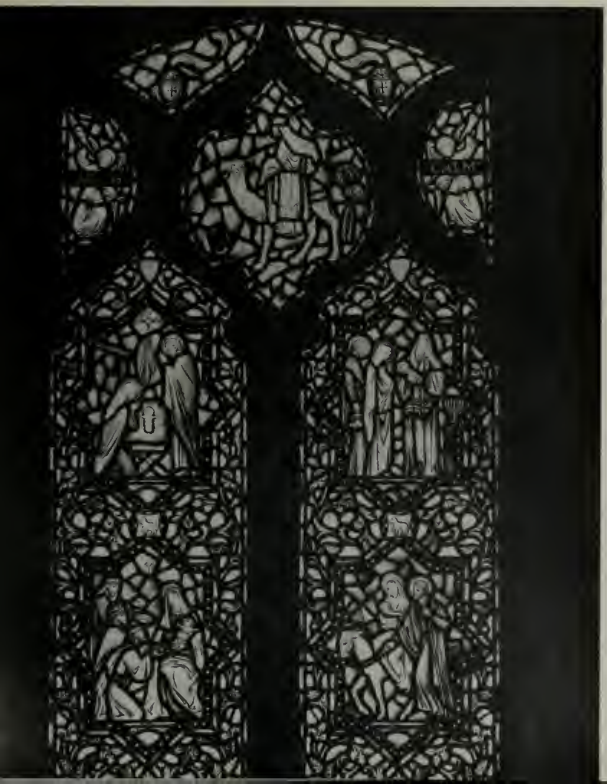
Installation of Clerestory Windows
4 x 24'6" high; and Transcript
Windows, 13 x 27 feet high.

Allison and Allison,
Architects

ST. MARKS CHURCH
San Antonio, Texas

"ROSE WINDOW"

Bethlehem Chapel



"NAVE WINDOW"

3'6" x 6'4"

Bethlehem Chapel

Henry Steinbomer, Architect

It has been said that the art of making stained glass windows is a lost art. This is not true. There are studios in the United States currently creating masterpieces in this medium of expression. Outstanding among them is The Judson Studios of Los Angeles, California. Three generations of the Judson family have created stained glass windows for churches throughout the United States—windows which further the glorification and spiritual atmosphere of their houses of worship. There are eighteen artists and master craftsmen in The Judson organization designing and fabricating stained glass windows on a nationwide basis. About 85% of these commissions are for churches of all denominations. Others are mausoleums, libraries, homes and various institutions.

Continuous study and research is necessary for a stained glass designer to understand and reflect in design and color the creeds of the many denominations interested in the use of stained glass. As liturgical art is most exacting, it is necessary to have and refer to many translations of the BIBLE, biographies of saints, books on ecclesiastical heraldry and symbolism.

The men that make up the staff of a successful group of stained glass craftsmen are an unusual lot and it is interesting to most people visiting The Judson Studios for the first time to learn that each craftsman is an active working member of the church of his choice and enjoys the opportunity of expressing his faith in his daily work.

The creation of a window requires countless colors and numberless bits of jewel-like glass to say nothing of the weeks, months, years necessary to see it through to completion. For more than 20 years, The Judson Studios have been creating

Two Porch Windows — St. Pauls Episcopal Church, San Diego, California
Philip Hubert Frohman, Architect

Artist developing a full size Cartoon, in charcoal, of one of a series of windows in St. Matthias Church, Huntington Park, California.

memorial stained glass windows for The First Congregational Church in Los Angeles and this year will mark the completion of this assignment. Included among these windows are those depicting the "Creation" and the "Tree of Jesse", subjects seldom seen in stained glass. One of the great transept windows in this church depicts the story of the Old Testament. The window measures approximately 16' wide and 30' high. A window of this size and design has required approximately two years of work and consists of approximately 27,900 jewel-like pieces of pot metal antique hand blown glass. Each piece of glass is handled a minimum of 13 times prior to being fitted into a lead "H" shape extrusion. This will give an idea of the schedule problems encountered by the craftsmen assigned to a commission of this nature.

Much of the glass used in the creation of stained glass windows comes from Europe but there are sources of supply within the United States now that are slowly but surely surpassing the foreign market for beauty of color and texture.

Mr. Horace T. Judson has said, "Stained glass possesses an aura of mystery and romance and even the very nature of the materials and proc-

Kouzar Brothers, Architects

Designer Creating a Sketch for a Rose Window

Artist painting the outline af a head with a special vitrifiable paint an a piece of flesh tone glass, cut to the shape af the full size cartoon. When the artist is finished the glass will be placed in a kiln and heated ta 1300 degrees Fahrenheit.

Glass cutter —

Using a pattern for cutting the glass.

Glazier is farming the "H" shape lead extrusians around each piece af glass.

Each lead jaint is later soldered.

"MATER DOLOROSA"

33" in diameter

Passionist Fathers
Sierra Madre Retreat
Chapel.

Sierra Madre, Calif.

Beatty & Clar, Engineers

Photographs by
Daniel W. Brock

Thampson Chapel

First Park
Congregational
Church

Grand Ropids,
Michigan

Rindge & Rindge,
Architects

esses of glass making are conductive to mystery. Opaque substances are transformed into a completely different material. Dull sand, lead, lime and soda that go into the furnace come out glowing and vibrant jewels to be controlled by the greatest skill. The substance remains sparkling and elusive even when cajoled into its final shape."

Stained glass windows have been caller "Cataracts of color between cliffs of masonry."

The fabulous migration of Americans westward has created a challenge to the churches to meet the spiritual needs of the newcomers. In caring for the glass requirements of the new churches, the fifty-five years of stained glass experience of The Judson Studios is often put to task when confronting the varied opinions of color and design most appropriate for the architecture of the church and the sunlight intensity of the location being discussed. In planning the control of the sunlight, the stained glass man must be keenly aware of the light intensity and atmospheric conditions of each district in question.

A most interesting development in the stained glass craft is the part psychology is playing in the selection of glass color. Mr. Judson is called upon to lecture about this subject before architectural and church groups throughout the nation and its importance is recognized by educators universally.

Pictured here are examples of several types of stained glass designs. These are original designs, as are all Judson creations, for several types of architecture — Gothic, Mediterranean, Colonial, Mission and contemporary.

"BLESSED ARE THE POOR IN HEART"

34½ x 64½ inches

One of a series of Beatitude Windows

Dinuba Methodist Church
Dinuba, California

John B. Anthony, Architect

Photos by Associated Pictures, Inc.

NEW GENERAL OFFICES

ACME BRICK COMPANY

Fort Worth, Texas

ARCHITECTS PRESTON M. GEREN
JOSEPH R. PELICH
W. G. CLARKSON & CO.

CONTRACTOR — JAMES T. TAYLOR & SONS, INC.

The recent formal opening of the new windowless home of the Acme Brick Company in Fort Worth, Texas, exemplified a new and interesting era in architectural design for commercial office buildings in the Pacific Southwest.

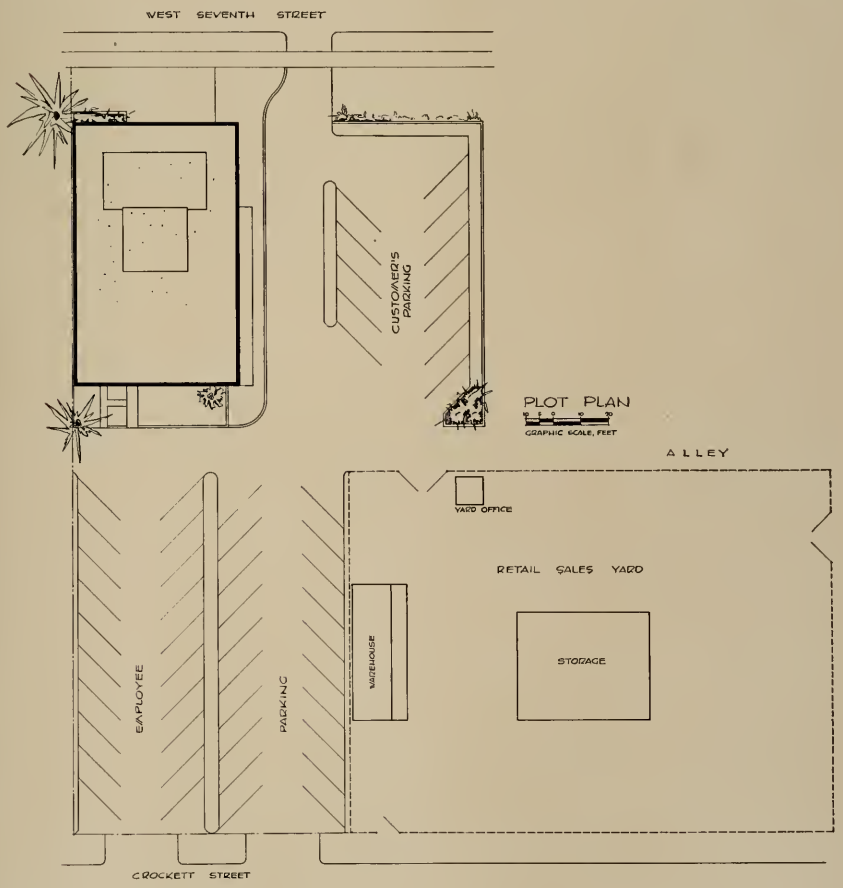
The unusual structure, windowless, except for

the four decorative openings on the street front, was decided upon by architects Preston M. Geren, Joseph R. Pelich, and W. G. Clarkson & Company, after a careful consideration of all construction, site, and utility factors together with construction costs. It was determined that savings of $16,000 in construction; $12,200 in heating and air conditioning equipment; and $6,400 in other costs could be effected by use of the windowless design.

Recurring costs will be reduced by $800.00 a year for maintenance of windows and a saving of $980.00 a year will be made in maintenance and control of air conditioning equipment and air controls.

Over and above any monetary considerations are the numerous advantages to the office personnel such as the reduction of noise, elimination of distractions, and the constant control of good light conditions. This modern windowless design has been employed effectively in other cases throughout the nation, thus the architects and firm feel confident the new building will further stimulate use of and interest in this type of building.

In addition to the windowless design, the most



ACME BRICK . . .

One of many offices illustrating the unusual effect of using exposed brick for interior walls.

modern architectural and structural innovations have been built into the building. The 22,800 square feet of functionally planned, air-conditioned office space are divided into four floors with all the offices of each department located on the same floor for more efficient coordination and interoffice communication. Unusual features include an assembly room seating 100 persons and a snack bar for office personnel. A welcome accommodation is the ample parking space provided for staff and visitors.

Other noteworthy features are the various uses of brick surfaces such as the exposed brick and tile and the painted brick, the blending of the currently popular shades of pink and buff, and the employment of specially shaped brick, of which an interesting example is the moulded shape created for the unusual round columns in the entrance lobby and outside.

LOBBY ENTRANCE illustrates one of the interesting designs created by skillful masonry and moulded bricks.

Photo by Hurl Swartz

MEL'S DRIVE-IN RESTAURANT

SALINAS, CALIFORNIA

ARCHITECTS { BUTNER; CHARLES E.
HOLM; WALLACE J.
WATERMAN; JOHN H.

GENERAL CONTRACTOR CARLSEN and JUNCKER

This new, attractive and recently completed building is located on one of the main streets of Salinas, California, near a large and newly developed Shopping Center which has been built to serve a group of new residences adjacent to the main highway leading to colorful and historical Monterey Peninsula. It was erected to serve the specific requirements of the Mel's Drive-In Restau-

rant Company of San Francisco by Mrs. Vera Richmond, the owner.

The building has been designed by the architects to provide a number of booths and service counters for interior seating, and a quick, convenient, outdoor service for customers in parked automobiles. The attractive site is on a corner lot with a third motor vehicle exit to the street to the north.

The several entrances and exits to the grounds are arranged for a maximum of automobile parking space for those wishing "car service" and provision has also been made for adequate additional parking space for patrons who are dining inside the building.

One of the interesting features of the building is that all controls between waitresses serving the interior facilities, and the "car-hops" serving the outside parked cars, and the food dispersing area radiates from the central kitchen. This permits a maximum of efficiency and minimizes service delays.

Variations between warm summer climate and cooler winter weather is solved by installation of a complete ventilating system for interior use during warm weather, and a complete heating system which assures warm, even temperatures during the winter months. Provision has been made for modern kitchen refrigeration at all times and ample deep freeze boxes are installed for handling of foods — fruits, vegetables, and meats.

The plan of the building and arrangement on the site has been worked out by the architects so that there is no cross-over of service to the outside customers in cars by the waitresses taking care of this type of trade. The interior restaurant accommodates 100 people at a time, while the Drive-In area will take care of 60 automobiles.

The building is designed with an attractive wide overhang cantilever roof that affords a desired summer and winter protection to personnel and

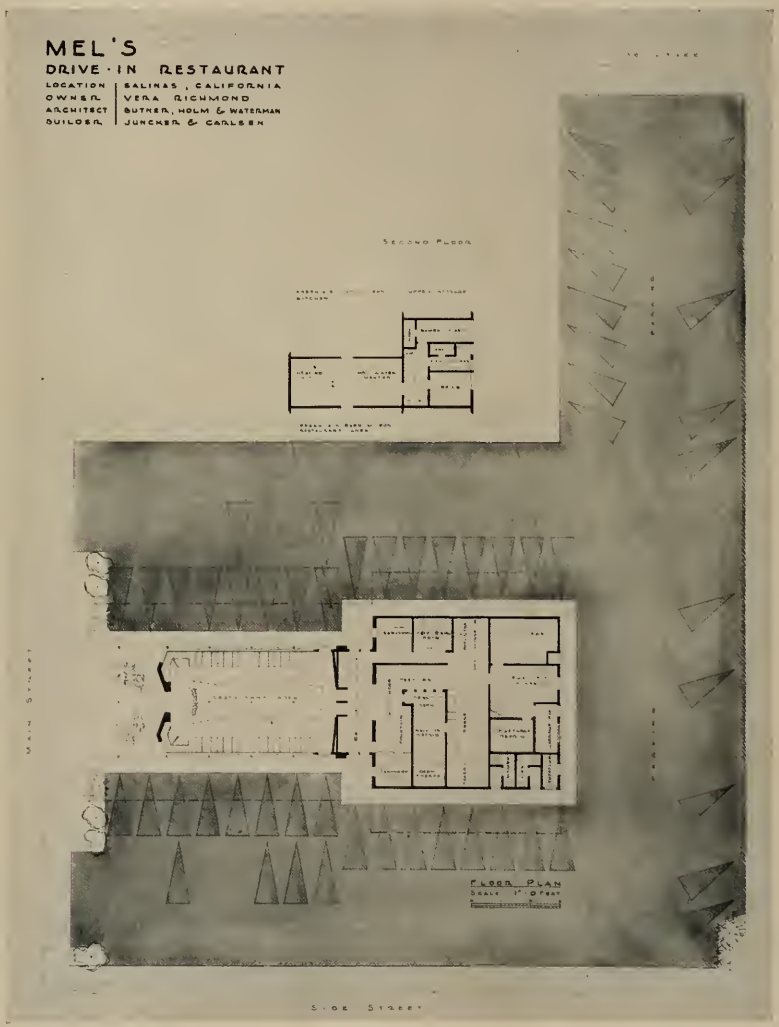
ATTRACTIVE INTERIOR *Photo by Hurl Swartz*

customers desiring car service. This feature is particularly attractive for rainy weather conditions. The cantilever roof rests on steel pipe columns which offer an opportunity to place large glass windows around practically the entire restaurant. The walls are of Cal-stone and coral colored blocks which are laid in an attractive pattern with open cells exposed to the desired texture to the walls.

Completion of the building adds another colorful commercial structure to Salinas designed to serve the immediate and adjacent areas of population.

FLOOR and PLOT PLAN

Photo by Parnell Studio



KERN COUNTY EARTHQUAKES 1952

By W. L. DICKEY
Chief Civil Engineer
Bechtel Corp'n., Power Division

The July and August earthquakes left a wake of death and destruction throughout much of Kern County at the lower end of California's San Joaquin Valley. They also taught the architect and engineer some valuable lessons.

An inspection of the stricken area confirmed that current building design practices are sound and will result in earthquake resistant structures if the design is properly executed.

The following photographs will serve to illustrate building failures typical of the area.

FIG. 1
Seventy year old masonry of the poorest kind in Tehachapi, California.

Fig. #1 illustrates the general behaviour of the older brick masonry in the area. This particular building is about seventy years old and represents masonry of the poorest kind. The mortar crumbled between the fingers and the interior joints were not filled. This type of construction should not be confused with modern reinforced grouted brick masonry as required by the building codes today which, properly designed and constructed, has proven itself an excellent type of construction in earthquakes.

Figure #2 illustrates quite well what happens to a masonry building when interesecting walls are not properly anchored to each other. The loss of this wall, which collapsed shortly after the picture was taken, could have been prevented by the addition of bond beams at strategic points. Here again modern standards of design and construction would have resulted in an adequate building.

FIG. 2
Walls of this concrete block building in Arvin were not properly anchored to each other.

Fig. #3 symbolizes a basic problem, that of adequate job supervision. The pile of concrete blocks shown were a part of a parapet wall above the roof. The design called for steel and concrete in the open cell. The failure to include a few

(See Page 32)

CCA ARCHITECTS IN ACTION AT YOSEMITE PARK California

Above: Luncheon tribute to Women's Architectural League. Mrs. Bolton White (at mike), immediate past president of WAL State Central Committee. Mrs. Henry L. Wright, new president, is seated to Mrs. White's left.

Left: John S. Bolles (left), Donald Beach Kirby, Albert Williams, Architects; Engineer Robert Dolton, and Architects Donn Emmons and Bernard Sabaroff take part in convention activities.

Right: Kenneth Roehrig of Hawaii (left), Glenn Stanton, AIA president, and Charles O. Matcham, Sierra-Nevada regional director, discuss regional organization at convention.

Below: Charles O. Matcham, Los Angeles and regional AIA director (left), Glenn Stanton, Portland, Oregon and AIA president, Everett Parks, Orange County Chapter president, and William Koblik, Sacramento, CCA president.

STRUCTURAL ENGINEERS of California at RIVERSIDE CONVENTION

Top: Panel discussion "TRAINING TECHNICAL MEN FOR INDUSTRY", Prof. L. M. K. Boelter, moderator (left); Paul E. Jeffers, Consulting Structural Engineer; Prof. D. M. Wilson; Prof. F. C. Lindvall; Prof. A. L. Miller, and Prof. H. H. Skilling.

Left: Technical program speakers J. S. Barrish (left); Stewart Mitchell; T. R. Higgins; C. M. Duke, and R. W. Binder, Chm. Tech. Progroms.

Left (Lower): Research Program Speakers Harold P. King, President SEAOSC; Prof. G. W. Housner; Prof. J. R. Benjamin; Prof. J. R. English; Prof. C. V. Armour; Dr. W. M. Simpson, and Prof. Boris Bresler.

Lower Corner: Technical Speakers J. J. Gould (left), president SEAONC; Donald Shugart, president SEAOC; Prof. F. C. Lindvall, and Prof. F. B. Farquharson.

Below: New Officers SEAOC, L. W. Groham, Secretory (left); J. S. Barrish, vice-president, and Clarence E. Rinne, president.

STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA

Review of Activities—Riverside Convention

Elected to serve as officers of the SEAOC for 1953 at the annual election of officers were: John E. Rinne, President; J. S. Barrish, Vice-President; and L. W. Graham, Secretary-Treasurer.

The Mission Inn at Riverside on October 16-18, hosted 362 registrants, guests and visitors attending a jam packed session of technical programs ranging from a discussion of earthquake and blast effects to a panel of five university professors and a leading Structural Engineer discussing the proper education and training of young men for the engineering profession.

Equally busy were the ladies. Their social program included bridge, canasta, cocktail parties, sight seeing trips, an outstanding fashion show, and a Saturday night banquet and dance.

Overall guidance of the Convention Program rested with Ben Benioff. R. W. Binder prepared the outstanding Technical Program. Donald Shugart introduced Riverside's Mayor-Elect Dales who welcomed the Convention to the City.

Professors C. Martin Duke and Morris Feigen, both Associates of E.E.R.I., presented a Summary of Earthquake and Blast Symposiums held last June at U.C.L.A. The Symposiums were initialed by the Earthquake Engineering Research Institute. It was brought out in the Summary that for the period 1906-46, California experienced 80 earthquakes ranging from 5.2 to 8.2 (Richter-Gutenberg Magnitude Scale.) R.G. 8.2 was the 1906 San Francisco quake. During the same period there were 629 quakes recorded world-wide with R.G. magnitudes from 7.0 to 8.7.

Audience participation was strong during the Friday afternoon panel discussion on Engineering Training. John J. Gould, president of the Northern Association, presided. Moderator was Professor L. M. K. Boelter, U.C.L.A. Members were: Professor David M. Wilson, University of Southern California; Professor H. H. Skilling, Stanford University; Professor A. L. Miller, University of Washington; Professor F. C. Lindvall, California Institute of Technology. Representing the practicing Structural Engineers was Paul E. Jeffers, consulting Structural Engineer and president of the Board of Registration, Civil and Professional Engineers.

The discussion involved the training of young engineers and their preparation for active work in their profession. The view points were as diverse and the desire of the practicing engineers (as expressed by Don Shugart and Bob Kadow) to have young men at least able to earn their keep as draftsmen while preparing for more complex work, and the expression of Professor Skilling that in extreme, training could be so lengthy that young men might spend a life time in study and have no time to work.

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SOUTHERN CALIFORNIA ARCHITECTS DISPLAY BUILDING PRODUCTS

Products in Architecture was the subject of a two-day display of new building products at the Los Angeles Breakfast Club, recently, sponsored by the Southern California Chapters of the AIA and the Producers Council.

Exhibits were supplied by the architectural school University of Southern California, architects and the Producers Council.

John J. Landon, headed the committee on arrangements for the architects and Herb Galitz represented the Producers. Assisting them were Stewart Granger, Clinton C. Ternstrom, Thornton Abell, Sidney Eisenshtat and Robert Inslee, architects, and council members Ran Hedger, Morris Hales and Robert Heublein.

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WASHINGTON STATE CHAPTER

The November meeting was devoted to a review of architecture throughout the United States as viewed by one of Seattle's younger architects.

Jan Koczarski, winner of last year's Alumnae Traveling Scholarship, spoke on his travels throughout the nation during the summer and illustrated many of his observations in architectural trends by photographic slides.

Another feature of the meeting was a talk and illustrated slides by Dicken Castro, a young architect from Bogata, Colombia, featuring modern architecture in Colombia.

SAN DIEGO CHAPTER

James R. Libby, representative of the Freyssinet Company, Inc. of Los Angeles and New York, was a recent speaker before Chapter members. He outlined many of his experiences throughout the country with use and results of use of prestressed concrete in construction. Libby's company is one of the pioneers and specialists in this field of construction in the United States and abroad.

Thru approval of the executive committee the Chapter will sponsor and aid the University of California Extension Division in setting up a course in Construction and Architectural subjects to aid

Orange County Chapter:
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Producers' Council—Southern California Chapter:
Bert Taylor, President, Pittsburgh Plate Glass Company; G. Robert Roden, Jr., Vice-President, Truscon Steel Company; Malcolm G. Lowe, Secretary, Natural Gas Equipment Inc.; Richard Seaman, Treasurer, W. P. Fuller & Company; Vern Boget, National Director, Gladding McBean & Co.

Producers' Council—Northern California Chapter (See Special Page)

anyone interested in the construction industry. Members of the Chapter will assist in giving instruction.

NORTHERN CALIFORNIA CHAPTER

Dean Joseph Hudnut of the Graduate School of Design of Harvard University was the principal speaker at the November meeting in the Palace Hotel, San Francisco, choosing as his subject "Architecture and The Spirit of Man".

The meeting was well attended and indicated the fall Chapter activities were of keen interest to chapter members.

Announcement was made that Pietro Pulluschi, FAIA, dean of the School of Architecture, Massachusetts Institute of Technology and Portland, Oregon, architect, and Richard Neutra, FAIA, of the Southern California Chapter and currently teaching at the University of Pennsylvania, will serve on the Jury for the Honor Award Program scheduled for February. A third juror will be selected, according to Worley Wong, chairman of the Honor Awards Committee.

New members include: Robert S. Oliver, Victor Abrahamson, and Stanley M. Smith, Corporate Members; William B. Reiner, George C. Quesada, Donald H. Smith, and Robert S. Cornish, Junior Associates.

EAST BAY CHAPTER

A diversified program of subjects of vital interest to architects was presented at the November meeting by Program Chairman Malcolm Reynolds.

Included in the program was a talk on "Tax Deductions for Architects" by Kenneth W. Huford, Certified Public Accountant of Oakland; a report on the "Revision to Practice Act" by Malcolm Reynolds; highlights and "Convention Report" of the recent CCA Conference in Yosemite Park; and "The Tehachapi Earthquake", a report and description of damage caused by recent earthquakes in California, by George Simonds, member of the

(See Page 31)

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Donald F. Shugart, President; Walter A. Buehler, Vice-President; Lewis K. Osborn, Sec.-Treas.; Office c/o Kistner, Curtis & Wright, Room 203 Architects Bldg., Los Angeles. Directors Arthur W. Anderson, John E. Rinne, Henry J. Degenkolb, Lewis K. Osborn, Ernest C. Hillman, Jr., R. W. Binder, Donald F. Shugart, Walter A. Buehler, and G. E. Goodall.

Structural Engineers Association of Northern California
John J. Gould, President; G. A. Sedgwick, Vice-President; Art B. Smith, Jr., Secretary; Franklin P. Ulrich, Treasurer; Robert P. Moffett, Ass't. Sec.; Wm. K. Cloud, Ass't. Treas.; Directors Robert P. Dalton, John J. Gould, Leslie W. Graham, J. Albert Paquette, John E. Rinne, Hyman Rosenthal, and G. A. Sedgwick. Sec. Office, 417 Market St., San Francisco.

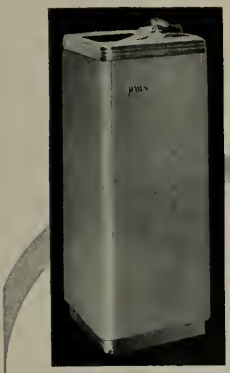
Structural Engineers Association of Central California
William H. Peterson, President; Walter S. Wassum, Vice-President; O. T. Illerich, Sec.-Treas.; Ernest D. Francis, M. A. Ewing, and Arthur A. Sauer, directors. Office O. T. Illerich, c/o Div. of Arch., Sacramento.

American Society of C. E.
San Francisco Section
Clement T. Wiskocil, President; John S. Longwell, Vice-president; J. G. Wright, Vice-president; H. C. Medbery, Treasurer; R. D. Dewell, Secretary. Secretary's Office, 604 Mission St., San Francisco.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

Frederick J. Converse, Foundation Consultant and Professor of Soil Mechanics at the California Institute of Technology spoke at the November 5 meeting in Los Angeles, on the subject "Vibration Compaction of Soils".

New members welcomed at the meeting included Robert Brandt, Ray Brosterhous, George Knudsen, and Albert Pratt, Jr., Associates; and Noel Finley, Edmund Foerstel, William Kuyper, and Allen Stubby, Juniors.



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William Bostock, contact member with the Pacific Coast Building Officials Conference, reported on a recent Conference meeting in Seattle, where executives of the construction industry viewed and reviewed hundreds of codes most of which are incorporated in the Uniform Building Code.

Steve Barnes reported on the new method of nominating officers, whereby members express their preference by mail, and presented the following officers for election to serve during 1953:

Ben Benioff, President; William T. Wright, Vice-President; C. M. Corbit, Jr., Secretary-Treasurer. Two directors are to be named from four nominees. Results are to be announced at the December meeting.

SOCIETY OF AMERICAN MILITARY ENGINEERS—SAN FRANCISCO POST

Admiral John Lesslie Hall, Jr., Commander of the Western Sea Frontier, spoke at the regular November meeting in the Presidio Officers Club, San Francisco, on the subject "Carrier Task Forces and Amphibious Operations".

Admiral Hall, a graduate of the United States Naval Academy in 1913, has had a long and distinguished career in the Navy with vast naval experience during World War II in command of Amphibious Forces in the Mediterranean-European Theatres and amphibious commands in the Pacific.

AMERICAN SOCIETY FOR METALS PUGET SOUND CHAPTER

Dr. Robert B. Mears, manager of the Research and Development Laboratories of the U. S. Steel Company, discussed the subject of "Designing to Prevent Corrosion" before a joint meeting of the Puget Sound and Western Washington Chapters of the American Society for Metals and the American Society of Mechanical Engineers in Seattle recently.

Dr. Mears called attention to the fact that plant

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wilise, Ex. Sec. Directors Harold P. King, Ben Benioff, Donald F. Shugart, Wm. T. Wright, Wm. T. Wheeler, Henry M. Layne and Joseph Sheffet. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices, L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President; Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

site selection is a very important aspect of designing to prevent corrosion. Prevailing winds, selection of materials, plant design, and climatic conditions must all be considered. Many examples of severe and expensive corrosive attack were shown on slides, and the talk was concluded with a discussion of the importance of protective coatings such as paints in delaying the start of corrosive attack.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

"School House Construction" was the theme of the November meeting held in the Mart Club, San Francisco, November 6.

Taking part in the program were: Luther H. Lincoln, member of the California State Legislature and the Education Committee; Mrs. P. D. Bevil, president of the Congress of the Parent-Teachers Association of California; and Jack Merchant, past president of the California Association of School Trustees and director of the National School Boards Association.

Discussions following the speakers developed many interesting points relative to the school situation throughout California and the West, it being the general opinion that school officials and others should not tamper with the Fields Act at this particular time.

NATIONAL ASSOCIATION OF CORROSION ENGINEERS

L. L. Whiteneck, Long Beach Harbor Department chairman of a symposium to be presented at the National Association of Corrosion Engineers' meeting in Chicago on March 16-20, 1953, has announced papers will be presented by the following.

Coating Research and Application in Atomic Energy Operations by C. D. Watson, Investigation of Protective Coatings for High Temperature Underground Pipelines by C. R. Stauffer, Nature and Theory of Filiform Corrosion by M. VanLoo, Effects of Composition of Steel on the Performance of Organic Coatings in Atmospheric Exposure by F. L. LaQue and J. A. Boylan and Weld Seam and Weld Flux Effects on Coating Life by A. J. Liebman.

The 1953 Chicago meeting will be the ninth annual meeting of the National Association of Corrosion Engineers, an international engineering association devoted to controlling corrosion and deterioration of metals and other materials.

THE FEMINEERS

The Femineers, wives of members of the American Society of Civil Engineers and Structural Engineers Association of Northern California, an-

(See Page 38)

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PRODUCER'S COUNCIL PAGE

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Vice-President, Howard W. Noleen **E. F. Hauserman Company** 31 Geary Street
Secretary, Hillman Hudson **Vermont Marble Company** 525 Market Street
Treasurer, Tait Smith **Ceco Steel Products Corpn.** 401 Tunnel Avenue

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ARCHITECTS' CONVENTION

Despite the moans and groans from those staying at Camp Curry at the foot of the Firefall, and the lesser complaints from others at the Lodge because of limited accommodations at the Ahwahnee Hotel, the recent Regional Conference of the California Council of Architects was a tremendous success.

If the question were asked what was the most outstanding feature of the four day program, we are certain that the answer would be the entertainment provided at the Sportsmen's Dinner on Saturday evening and put on by the Producers' Council.

Unfortunately our space is rather limited and we can only touch briefly upon the activities at the convention and we cannot possibly include the praise due all of the architects and producers who worked so diligently in putting on this affair.

Herb Mullen, architect of Sacramento, excelled in his handling of the dinner meetings and was ably assisted by Don Kirby and Bourne Hayne.

The untiring efforts of President Al West, Howard Noleen, Herb Duncan, George Connelly, John Cowley and Art Staat were largely responsible for the success of the activities sponsored by the Producers' Council.

Entertaining by the members of the Producers' Council at the Convention took place in the suite of rooms reserved for the council in the Ahwahnee rather than in individual private rooms. The atmosphere was one of tremendous friendliness and there was the feeling that it was a Council affair and not simply a private invitation from a member. This, of course, was very desirable and we think tended to strengthen the cause of the Council.

One of the serious notes of the Convention was a presentation at a Saturday luncheon by Mr. Bert Stewart, Jr., field secretary, of the National Automobile Club. Mr. Stewart announced his talk as being one of public relations and actually it was one of the best condensations of good salesmanship that most of the audience had ever heard. The talk was given with the thought that the architects could improve their public relations, but actually the subject applied to both architects and producers, equally well.

The Sporting events took place on Saturday and we regret to advise that the Southern Division badly defeated the Northerners in the annual baseball game. The award of the Trophy as well as dozens of prizes for the other contests were made in the evening at the Sportsmen's Dinner.

As we said earlier, the highlight of the Convention was the program at the Sportsmen's Dinner which featured a program entitled "Blueprint, U. S. A." and put on by Mr. Herb Duncan and Mr. Hartley Sater, announcer for KGO. The purpose of the program was to point out to the nation over a national hook-up the high ideals of the architectural profession. Exemplifying this high type of professional man was Mr. Wendell Spackman. Much to the embarrassment of the audience and particularly his unsuspecting wife, Mr. Spackman proceeded to fumble and bungle the questions asked of him regarding the architects' code of ethics.

It was not until about half the program had elapsed before the majority of the audience realized that this was not the real thing, but a very clever mock program. In advice to the architects, Mr. Spackman's reply to the question "How to get around complex city building codes," was "Build in the country." We unhesitatingly recommend that Wendell be given the Convention Oscar for the best male actor.

TWENTY-SECOND ANNUAL CHRISTMAS JINKS

Mr. Roland MacNichol, chairman for the 22nd Annual Christmas Jinks, announced that the extravaganza will be held on December 4 in the Peacock Court of the Mark Hopkins Hotel. Cock-

USE QUALITY PRODUCTS — MANUFACTURERS OF QUALITY BUILDING PRODUCTS — PRODUCERS' COUNCIL — CONSULT AN ARCHITECT

PRODUCER'S COUNCIL —

(From Opposite Page)

tails will be served from 6:00 to 7:30, followed by the dinner and entertainment.

Each member company is to be responsible for at least four tickets. Rolly pointed out that every member and alternate is expected to attend this function, and that each should bring at least one guest. We are asked to confine our invitations to architects and engineers, as the attendance will be limited. Tickets are being handled by John Cowley, The Brookman Co. Inc., and will cost $8.00 each.

A.I.A. ACTIVITIES

(From Page 27)

California State Board of Architectural Examiners. Simonds included a number of interesting and educational photographic slides in the presentation.

WOMENS ARCHITECTURAL LEAGUE EAST BAY CHAPTER

Meetings for the fall season program of activities are under way with the first of a series of meetings being addressed by Dean William Wurster, University of California, Berkeley; also presented were reports of the recent California Architects Association conference at Yosemite Park.

Kathleen Date is secretary of the organization.

USC STUDENT CHAPTER ELECTS OFFICERS

Marvin C. Goodfarb has been elected president of the Student Chapter of the AIA at the University of Southern California.

Other officers chosen to serve with Goodfarb include Edward Woodrich, vice-president; Dionne Wisehart, secretary; Ferrydoon Chaffari, treasurer; and Robert Knapp, John Pointer, Art Pereira, and Robert Viault, directors.

SOUTHERN CALIFORNIA CHAPTER

Dr. Julian A. McPhee, President, California State Polytechnic College, and former director Vocational Education, State of California, member of the State Board of Directors of the California Parent-Teachers Association, and the California War Board of the U. S. Department of Agriculture, was the principal speaker at the November meeting in Los Angeles.

Dr. McPhee spoke on the subject "Legislators as I know them" and related many experiences with members of legislative bodies. A number of the members of the California State Legislature were in attendance at the meeting.

Robert Field, Jr., chairman of the nominating committee presented the following as officers to serve for the ensuing year:

Henry L. Wright, President; U. Floyd Rible, Vice-President; Cornelius M. Deasy, Secretary; Savo M. Stoshitch, Treasurer, and Directors Hugh R. Davies ,(3-year term), S. Kenneth Johnson (2-year term), Kemper Nomland and Chas. E. Fry, past president, for 1-year terms.

LOS ANGELES ARCHITECT LEAVES FOR MEXICO

Eduardo J. Samaniego recently closed his Los Angeles offices and announced he was going to Mexico City to work on several architectural committments which will require about a year to complete.

Upon completion of the work Samaniego expects to reopen offices in Southern California.

LOS ANGELES ARCHITECT EXPANDS OFFICES EAST

Welton Becket, FAIA, head of the Los Angeles architectural firm of Welton Becket and Associates has announced his firm has opened new offices at 1114 Grand Avenue in Kansas City, Missouri, to serve clients in the mid-west.

Other offices are maintained in San Francisco, Washington, D. C., and New York.

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(From Page 22)

pennys worth of concrete will cost the owner many dollars in repair bills.

FIG. 3
Contractor failed to grout the cell containing the steel on this concrete block building in Tehachapi.

Fig. #4 shows a truss anchor failure in a Bakersfield garage. In this instance it would have cost nothing to embed the anchor more deeply, properly, into the wall so that it would not have pulled loose. All the materials were there but they were not combined in the proper manner.

FIG. 4
Truss anchor failure in a Bakersfield garage.

Fig. #5 emphasizes the false economy of omiting foundation bolts in frame construction. This house, of fairly modern construction otherwise, was not damaged except as a result of sliding off its foundation.

FIG. 5
Foundation bolts were omitted from this frame house near Arvin.

Other failures observed but not illustrated here include examples of reinforced concrete and structural steel construction.

A consideration of these failures and many more like them lead to three basic conclusions.

First that no material or type of construction is

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inherently immune to earthquake damage or conversely that a well designed, well built structure of any material will satisfactorily resist the forces of an earthquake.

Secondly, and in a way an obvious corollary, a good design no matter how efficient on paper, must be properly incorporated in the building if it is to be effective.

The third conclusion which stems naturally from the first two and is that the control of the job in the past has in many instances been ineffective and must be strengthened and improved in the future if we are to reduce earthquake losses due to faulty construction.

Lack of adequate job supervision then is the real problem. The customary methods of job supervision are "old stuff" to the average engineer or architect but they will stand repeating here nevertheless.

First there is the occasional inspection given the average small job by the designer. On many jobs, particularly unit masonry structures where the mason covers most of his mistakes as he makes them, this occasional inspection cannot reasonably be expected to catch all of the small details which might be inadequate.

Secondly there is the checking by the local Building Department which varies with the locality and is constant only in the almost universal lack of sufficient personnel to do the job properly.

Thirdly there are various arrangements providing for additional inspectors either from the offices of the engineer or architect or from the various other qualified agencies having inspection personnel available.

There seems to be no question that adequate inspection can be made available and that it should be. The nominal cost to the client for this additional service is slight indeed when compared with the reduced hazard and with the reduced insurance rates allowed on superior construction. There is even benefit to the contractor, who usually looks askance on any attempt to further "interfere with his job." Experience in this regard indicates that a competent inspector can be an asset rather than a liability.

It is up to the entire construction industry to work out a solution to this problem but it is primarily up to the architect or engineer to sell a complete service to the client.

HOOVER EMPHASIZES ENGINEER RESPONSIBILITY TO MANKIND

Herbert Hoover, speaking before members of the Professional Engineers of Oregon during the recent Northwest Engineers Centennial in Portland, Oregon, declared that engineers have a heavy responsibility in maintaining the American way of life.

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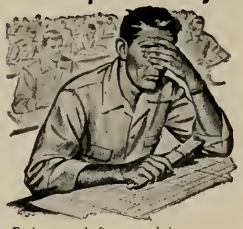

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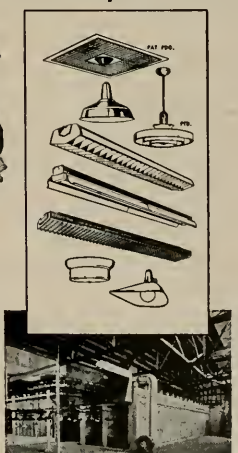

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

HANDBOOK OF ENGINEERING FUNDAMENTALS. Second Edition. By Ovid W. Eshbach. John Wiley & Sons, Inc., 440 4th Ave., New York. Price $10.00.

The first edition of the Handbook of Engineering Fundamentals was a departure from traditional publication of materials of this nature. In addition to serving a utilitarian purpose in an economical way, it attempted to bring together the most important basic facts and principles upon which our technological and engineering advancement depends.

The second edition contains the same basic factors, however the engineering tables have been enlarged to include standard structural sizes for aluminum, and data on tangents and offsets for the use of civil engineers. Other tables and symbols have been brought up to date, and the MKS system of units has been incorporated in the tables of conversion factors.

It offers a ready reference to the basic ideas of applied science and mathematics for those studying the subjects, and for those who, years after their formal education, find need to clarify their concept or to be brought up to date.

DU PONT—The Autobiography of an American Enterprise. Charles Scribner's Sons, New York. Price $5.00.

"This is a book without an author, just as it is a story without an end," begins the Foreword of this book on one of America's most notable business ventures. Unlike most historical accounts, which express the impressions of a detached viewpoint, this is a book written from the inside out, rather than from the outside in. It is not intended as formal history, but as a living record.

Generations of men and women played parts in the development of the company from a single powder mill to a national institution, and generations were to contribute to this chronicle. Thousands of photographs were examined; diaries; maps, letters; ledgers; and personal recollections, all have been carefully explored and presented in a most interesting and acceptable manner.

HOW TO PLAN A HOUSE. By Townsend & Dalzell. American Technical Society, Publishers, 848 E. 58th St., Chicago, Ill. Price $5.00.

This is a Second Edition of "How To Plan a House" written by Gilbert Townsend, S.B., member of Ross, Patterson, Townsend & Fish, Architects and Engineers, Montreal, Canada; and J. Ralph Dalzell, B.S., managing editor, American Technical Society.

The new edition brings up to date the building of a home, which to most people, is the most rewarding and the most expensive single venture of their life. The book bridges the gap between a dream house and a dream realized. It is an informed and competent guidance for the future owner in the design and construction of the dwelling.

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423. PROOF THAT MARBLE COSTS LESS. Proof that marble is economical is the subject of a new brochure published by the Marble Institute of America. This 16 page booklet is profusely illustrated, and contains besides a series of letters from building managers in widely separated parts of the country, attesting to the low cost of maintenance provided through the use of marble for floors, corridor wainscot, toilet partitions, etc. in all types of commercial buildings. A.I.A., 22-A, 18 pages illus. 9/25/52.

424. BETTER LABORATORY PLANNING. Better Laboratory Planning, a helpful guide for architects planning school, hospital or industrial laboratories has just been published by the Laboratory Equipment Section of Scientific Apparatus Makers Association, an organization whose members are leading manufacturers of laboratory apparatus and equipment. The book is file size and contains numerous photographs of outstanding laboratory installations. It does not purport to be a reference volume, but rather examines some of the considerations which underlie effective laboratory planning. A.I.A. 35-E, 28 pages illus., 10/13/52.

425. STANDARD SPECIFICATIONS FOR INDUSTRIAL LIGHTING UNITS. This RLM Specifications Book contains detailed specifications for 18 of the most commonly-employed incandescent and fluorescent industrial lighting units. Included are two new specifications, as well as important revisions and clarifications of existing specifications, and new tables of typical coefficients of utilization and light distribution curves. Due to the increased employment of high-mounting units for high-bay industrial installations, the Institute has established two new specifications covering such units. The first is RLM Standard Specification No. 4 for RLM High-Mounting Porcelain Enameled Reflectors. The second is RLM Standard Specification No. 40 for RLM High-Mounting Aluminum Reflectors. These two new sepcifications take the place of former standard specifications 19 and 20 for concentrating and spread-distribution aluminum reflectors. A.I.A. 31-F-233, 44 pages illus., 9/52.

426. HOSPITAL STANDBY PLANTS. How hospital patients and staff members are protected against electric power failures is shown in a new two-color folder just issued by D. W. Onan & Sons Inc. The folder describes how modern hospitals are safeguarded from power outages by Onan Standby Electric Plants. Models for every hospital need, from electric lights for operating rooms and exits to power for elevators and heating systems, are described and illustrated. Units range from 1,000 to 35,000-watt sizes in both air-cooled and water-cooled gasoline-engine driven models; full Diesel Electric Plants are listed in sizes from 12,500 watts to 55,000 watts. Automatic A.C. line transfer controls, designed to take over the load within seconds after commercial power is interrupted, are described. A309-952, illus., 9/52.

427. SPECIAL PURPOSE STEELS. Just published by Armco Steel Corporation is an illustrated catalog describing its special-purpose steels. Among these are stainless grades, zinc- and aluminum-coated steels, terne coat, enameling iron, and mechanical steel tubing. One section deals with Type 430 stainless steel and tells how it may be used as an alternate for Type 302 while the latter is defense-restricted. 12 pages, illus., 10/52.

428. UNIT HEATERS. A new catalog covering U. S. Unit Heaters is announced by W. C. McCord, President of United States Radiator Corporation. On request the new catalog will be sent to any heating engineer, heating contractor, wholesaler, architect, or builder—withotu charge. This catalog will be helpful to anyone who makes calculations and layouts for heating installations. A.I.A. 30-d-11, 16 pages illus., 9/52.

429. ZEOLITE WATER SOFTENERS. Troubles caused by the utilization of hard water and the multiple economies effected by curing them are thoroughly discussed in a comprehensive bulletin issued by The Permutit Company. The bulletin lists several industries in which steam and water are of importance. It explains the three basic types of ion-exchange equipment and shows how these units can be profitably utilized. No. 2386, 16 pages illus., 9/52.

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DENVER, COLORADO . . . . CONTINENTAL OIL BUILDING
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High Class Interior Finish Quality Millwork

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Pumping Machinery for Every Purpose

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LOS ANGELES — 455 EAST 4TH

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DOMESTIC AND IMPORTED MARBLES

GRANITE VENEER

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Phone: DUnkirk 2-7834

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. $9.00
Cotton Insulation—Full-thickness (3⅝") ..... $95.50 per M sq. ft.
Sisalation Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—

Cost of ornamental iron, cast iron, etc., depends on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 95.00

Flooring—

	Per M Delvd.
V.G.-O.F. 8 & Btr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry, 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-5IS $135.00
½-inch, 4.0x8.0-5IS 219.00
¾-inch, per M sq. ft. 292.00
Plyscord ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resawn, per square $15.25
¾" to 1¼" x 24/26 in split resawn, per square 17.00
Average cost to ley shakes,— 8.00 per square

Pressure Treated Lumber—
Wolmanized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds. $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 per 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patent screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, per lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 per lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (average), $75.00 per M.
For smaller work average, $85.00 to $100. per 1000.

PAINTING—

Two-coat work ..... per yard 85c
Three-coat work ..... per yard $1.10
Cold water painting ..... per yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Raw	Wholesale Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All-Purpose (Soft-Paste)

Net Weight Packages	List Price per 100 lbs.	Price to Painters Per 100 lbs.	Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¼c per pound less than above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead—Red Lead in Oil

Price to Painters—Price Per 100 Pounds	100 lbs.	50 lbs.	25 lbs.
Dry White Lead	$26.30	$	$
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metal lath	3.50
Ceilings with ¾ hot roll channels metal lath (lathed only)	3.00
Seilings with ¾ hot roll channels metal lath plastered	4.50
Single partition ¾ channel lath 1 side (lath only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (lath only)	5.75
4-inch double partition ¾ channel lath 2 sides plastered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double partition; 1" channels; 4¾" overall partition width. Plastered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed LLiLme—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd.

Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply ..... $13.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $16.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, per square .. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, per square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes, 10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes, 10" Exposure $35.00
1 x 25" Resawn Cedar Shakes, 10" Exposure 22.00
Above prices are for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, per ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M. $240.00
Standard, 8-in. per M. 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardware $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless,
(unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft. .. 1.85

STEEL—STRUCTURAL—

$290 per ton erected, when out of mill.
$350 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.

¼-in. Rd. (Less than 1 ton) per 100 lbs.	$8.90
⅜-in. Rd. (Less than 1 ton) per 100 lbs.	7.80
½-in. Rd. (Less than 1 ton) per 100 lbs.	7.50
⅝-in. Rd. (Less than 1 ton) per 100 lbs.	7.25
¾-in. & ⅞-in. Rd. (Less than 1 ton)	7.15
1-in. & up (Less than 1 ton)	7.10

1 ton to 5 tons, deduct 25c.

STORE FRONTS—

Individual estimates recommended. See ESTIMATORS DIRECTORY for Architectural Veneer (3), and Mosiac Tile (35).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residantial, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ☆" ..... $ .18 - $ .35 sq. yd. Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Linoleum tile, per □ ft. ..... $ .65
Rubber tile, per □ ft. ..... $ .55 to $ .75

Furring Tile

Scored	F.O.B. S. F.
12 x 12, Each	$ .17

Kraftile: Per square foot	Small Lots	Large Lots
Patio Tile—Niles Red		
12 x 12 x ⅞-inch, plain	$ .40	$ .36
6 x 12 x ⅞ inch, plain	.44	.39
6 x 6 x ⅞-inch, plain	.46	.42

Building Tile—
8x8½x12-inches, per M. $139.50
6x5½x12-inches, per M. 105.00
4x5½x12-inches, per M. 84.00

Hollow Tile—
12x12x2-inches, per M. $146.75
12x12x3-inches, per M. 156.85
12x12x4-inches, per M. 177.10
12x12x6-inches, per M. 235.30
F.O.B. Plant

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings *(3) refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (1)
Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(35)

AIR CONDITIONING (2)
Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58: 4851 S. Alameda St.
San Francisco: 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (3)
Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259
THE CAMBRIDGE TILE MFG. CO. *(35)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601 Franklin Building
Pasadena 8: P. O. Box 186. East Pasadena Station
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834

BANKS - FINANCING (4)
CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery Sts., EX 2-7700

BATHROOM FIXTURES (5)
Metal
THE CAMBRIDGE TILE MFG. CO. *(35)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(35)

BRASS PRODUCTS (6)
GREENBERG'S, M. & SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK (7)
Face Brick
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
REMILLARD-DANDINI CO.
San Francisco 4: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (8)
GREENBERG'S, M. & SONS *(6)

BUILDING PAPERS & FELTS (9)
ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Blvd.
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY
San Francisco 5: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (9a)
THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (10)
PACIFIC PORTLAND CEMENT
San Francisco 4: 417 Montgomery St., GA 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

CONCRETE AGGREGATES (11)
Ready Mixed Concrete
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond: 26th & B. St. - Yd. 2, RI 4307

DOORS (12)
Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
F. M. COBB CO.
Los Angeles & San Diego
SOUTHWESTERN SASH & DOOR
Phoenix, Tuscon, Arizona
El Paso, Texas
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN DOOR CO.
(See above)

FIRE ESCAPES (13)
MICHEL & PFEFFER IRON WORKS, INC.
South Linden & Tanforan Ave.
South San Francisco: JU 4-8362

FIREPLACES (14)
Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St., PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (15)
Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(35)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
San Francisco: 470 Alabama St., MA 1-7766
Los Angeles: 923 E. 3rd, TR 8282
Seattle: 3440 E. Marginal Way
Diversified (Magnesite, Asphalt Tile, Composition, Etc.)
LE ROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (Composition)
LE ROY OLSON CO.

GLASS (16)
W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Ore.

HEATING (17)
S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 N. Broad St.
SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.
UTILITY APPLIANCE CORP. *(2)
Electric Heaters
WESIX ELECTRIC HEATER CO.
San Francisco 5: 390 First St., GA 1-2211
Los Angeles: 520 W. 7th St., MI 8096
Portland: Terminal Sales Bldg., BE 2050
Seattle: Securities Bldg., SE 5028
Designer of Heating
THOMAS B. HUNTER
San Francisco 4: 41 Sutter St., GA 1-1164

INSULATION AND WALL BOARD (18)
LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY *(9)
WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Stockton: 733 S. Van Buren, ST 4-9421
Sacramento 1331 - T St., HU 1-0125
Fresno: 434 - P St., FR 2-1600

IRON—Ornamental (19)
MICHEL & PFEFFER IRON WORKS, INC. *(13)

LANDSCAPING (20)
Landscape Contractors
HENRY C. SOTO CORP.
Los Angeles: 13,000 S. Avalon Blvd., ME 4-6617

LIGHTING FIXTURES (21)
SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (22)
Shingles
LUMBER MANUFACTURING CO. *(18)

MARBLE (23)
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (24)
PACIFIC COAST AGGREGATES, INC. *(11)

MILLWORK (25)
LUMBER MANUFACTURING COMPANY *(18)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles, 6820 McKinley Ave., TH 4196

PAINTING (26)

Paint
W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim
PACIFIC COAST AGGREGATES, INC. *(11)
Exteriors
PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE HALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio
THE SCOTT COMPANY *(17)
HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341
CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178
SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322
SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows
DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGEGATES, INC. *(11)
Fire Doors
DETROIT STEEL PRODUCTS COMPANY
Skylights
DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 1171
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733
HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767
JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717
REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building
SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)
HERRICK IRON WORKS *(33)
SAN JOSE STEEL CO. *(33)
COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1235 S. La Brea, WE 3-7800
GLADDING, McMEAN & CO. *(3)
KRAFTILE
Niles, Calif.: Niles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

TIMBER—REINFORCING (36)

Trusses
WYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.
Treated Timber
J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)
GLADDING, McBEAN & CO. *(3)
KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161
DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718
CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440
MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516
PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639
STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064
SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver
P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697
ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 2050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh
PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (September 1, 1952.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68					
BRICKLAYERS	3.25	3.25	3.25	3.00	3.25	3.00	3.45	3.25	3.00	3.00	2.75	3.00	3.00
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.45	2.45	1.94	1.94	1.94	1.94	1.94
CARPENTERS	2.60	2.60	*2.39	*2.39	*2.39	*2.39	*2.39	*2.39	2.57	2.57	2.57	2.57	2.43
CEMENT FINISHERS	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	2.57	2.57	2.57	2.57	2.57
ELECTRICIANS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.75	2.75	2.75	2.75	2.75	2.75
ELEVATOR CONSTRUCTORS	2.75	2.70	2.65	2.75	2.915	2.915	2.915	2.915	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.25	2.30	2.30	2.30	2.16	2.16	2.16	2.16	2.12
IRONWORKERS, ORNAMENTAL	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.70	2.70	2.70	2.70	2.70
REINF. RODMEN	*2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.38	2.38	2.38	2.38	2.38
STRUCTURAL	*2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
LABORERS: BUILDING	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
CONCRETE	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
LATHERS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.8125	3.125	3.125	3.125	3.125	3.125
MARBLE SETTERS	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.40	2.40	2.40	2.40	2.4.
PAINTERS	**2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.38	2.56	2.425	3.22	2.22
PILEDRIVERS	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	*2.5575	2.56	2.38	2.38	2.38	2.38
PLASTERERS	3.125	3.165	3.125	3.125	3.00	3.00	3.125	3.00	3.125	3.125	3.125	3.125	3.125
PLASTERERS, HODCARRIERS	2.60				2.50	2.50		2.50	2.875	2.25	2.30	2.00	2.00
PLUMBERS	2.90	2.90	2.875	2.75	2.75	2.75	2.75	2.75	2.90	2.90	2.90	2.90	2.90
ROOFERS	2.50	2.50	2.50	2.25	2.50	2.50	2.50	2.50	2.65	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.475	2.475	2.3125	2.43	2.50	2.50	2.40	2.415	2.475	2.475	2.175	2.00	2.475
SPRINKLER FITTERS	2.75	2.70	2.70	2.625	2.625	2.625	2.75	2.75	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.75	2.90	2.90	2.75	2.625	2.625	2.75	2.75	2.90	2.90	2.90	2.90	2.90
TRUCK DRIVERS—½ Ton or less	1.89	1.99	1.99	1.89	1.89	1.74	1.89	1.89					
TILESETTERS	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.65	2.65	2.65	2.65	2.65

* 6 Hour Day. ** 7 Hour Day. *** Before C.I.S.C for 15c increase.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secretaries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

SAN FRANCISCO ARCHITECT APPOINTED AS CONSULTANT

Henry Hill, San Francisco architect, has been appointed a Consultant for Gunnison Homes, Inc., a housing subsidiary of the United States Steel Corporation.

Hill, a graduate in Architecture of the University of California, London, and Harvard, is on the faculty of Stanford University. He has had wide experience in residential and commercial architecture in the San Francisco Bay Area and is the author of a number of books on architecture and related subjects.

RALPH H. SMITH NAMED NEW PRESIDENT OF WELDING GROUP

Ralph H. Smith, Phoenix, Arizona, has been named President of the American Welding Society's Arizona Section.

Other officers include J. August Rau, vice-chairman; Charles Fogwell, second vice-chairman; Walter E. Riley, secretary; and F. Morris Aspey, treasurer. Directors named were Edward Allison, John Dyer, William Garland and Phillip Binkley.

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

The National Society of Professional Engineers, at their recent annual meeting in Tulsa, Oklahoma, adopted a resolution calling for the development of the nation's natural resources by "private enterprise."

The resolution declared in part, "The National Society of Professional Engineers favors the use of private enterprise in the development of our natural resources, guided by sound principles of conservation," and pointed to the Niagara River Power Development in the New York and the Hells Canyon on the Snake River in Idaho as instances wherein legislation is being considered that violates this principle.

ENGINEER A. M. NISHKIAN of San Francisco has become associated with the general contracting firm of MacDonald, Young and Nelson.

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CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

JUNIOR SEMINARY, Van Nuys, Los Angeles County. Roman Catholic Archbishop of Los Angeles, owner. Dormitories, classrooms, 2 chapels, kitchen, dining area, studies, offices, $1,500,000. ARCHITECTS: Montgomery & Mullay, Los Angeles. 161 x 765 ft., reinforced concrete construction, tile and composition roofing, elevator, walk-in refrigerator, quarry tile and marble work, sound-proofing, steel stairs, wood and metal sash, toilets and bathrooms, plate glass, cement, ceramic tile, asphalt tile floors, heating and ventilating. GENERAL CONTRACTORS: George A. Fuller Co., Los Angeles.

ST. MARY'S UNDERGROUND GARAGE, San Francisco. Parking Authority of the City & County of S. F., owner, $2,100,000. STRUCTURAL ENGINEER: John J. Gould, San Francisco. GENERAL CONTRACTOR: Haas & Haynie, San Francisco.

SUPER MARKET BUILDING, Sacramento, Sacramento County. Fort Sutter Development Co., owner. 1 story, 56,000 sq. ft., $509,656. PLANS BY: Karl Kooper & Assoc., Los Angeles. Reinforced concrete, brick & brick veneer, Arizona Flagstone, native stone, some structural steel, wood rool and air conditioning. GENERAL CONTRACTOR: Lawrence Construction Co., Sacramento.

NEW INTERMEDIATE SCHOOL, San Rafael, Marin County. San Rafael Board of Education, owner. 15 classrooms, science, art, music, home-making, shops, multi-purpose, kitchen, and toilet rooms, $779,006. ARCHITECT: Kirby & Mulvin, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Herbert A. Crocker Co., San Rafael.

BONNEVILLE POWER ADMINISTRATION BUILDING, Portland, Oregon. Bonneville Power Administration, lessee. 8 story, 2 square block office building, $4,002,628. ARCHITECT: John Graham & Assocs., Seattle. GENERAL CONTRACTOR: Ralph & Horwitz, Portland.

FACTORY BUILDING ADDITION. San Francisco. Planters Nut & Chocolate Co., owner. $755,483. ARCHITECT: Albert F. Roller, San Francisco. STRUCTURAL ENGINEER: H. J. Brunnier, San Francisco. 5 story and basement, 100 by 160 reinforced concrete construction, steel sash, automatic sprinkler system, 2 freight elevators. GENERAL CONTRACTOR: Dinwiddie Construction Co., San Francisco.

SALINAS LOW RENT HOUSING PROJECT, SOLEDAD LOW RENT HOUSING PROJECT. Salinas & Soledad, Monterey County. Housing Authority of County of Monterey, owner. 100 units and 26 units, $860,570. ARCHITECT: Butner, Holm & Waterman, Salinas, 1 and 2 story frame and stucco construction. GENERAL CONTRACTOR: Barry J. Richards Co., Studio City.

APARTMENT BUILDING, West Los Angeles, Los Angeles County, T. Warner, owner. 2 story, 6 unit, 30 rooms, $70,000. STRUCTURAL ENGINEER: W. G. Chandler, Beverly Hills. Frame and stucco construction, 37 x 124, cedar shingle roofing, oak and linoleum floors, tile bathroom floors, 2 gas furnaces, stall showers, composition stairs, metal casements, wood shutters. OWNER BUILDS.

APARTMENT BUILDING, San Diego, San Diego County. Fred B. Mitchell Co., owner, 22 units, two 2-story buildings, 44 rooms, 22 baths, 23 x 70 ft., $94,110. ARCHITECT: William P. Lodge, San Diego. Frame and masonry construction, composition roofing slab, wood and asphalt tile floors, gas wall heaters, sheet metal, aluminum sash, ceramic tile. GENERAL CONTRACTOR: Shepard, Mumby and Clacy, San Diego.

WAREHOUSE, LOS ANGELES. LOS ANGELES COUNTY, California Consumers Corp., owner. 170x175 ft., $190,000. ARCHITECT: Vincent Palmer, Los Angeles. Masonry construction, composition roofing, concrete slab flooring, cork insulation, adjustable ramps, steel beams, pipe railing, acoustic tile ceilings, gas furnace, toilets, metal sash, obscure and plate glass. GENERAL CONTRACTOR: G. O. Gartz Construction Co., Los Angeles.

STORE AND WAREHOUSE, Beverly Hills, Los Angeles County. Abbey Rents, owner, 16,000 sq. ft., $150,000. ARCHITECT: Walton, Beckett & Associates, Los Angeles. Brick wall construction, concrete work, composition roofing, structural steel work, cement slab and asphalt tile floors, acoustical work, metal sash, plate glass, electrical work, heating and ventilating, sheet metal, toilets. GENERAL CONTRACTOR: Zimmer Construction Co., Los Angeles.

TELEPHONE OFFICE BUILDING, Alhambra, Los Angeles County. Pacific Telephone & Telegraph Co., owner. 1 story and part basement, 53,000 sq. ft., $600,000. ARCHITECT: Allison & Ribble, Los Angeles, reinforced concrete and brick construction, structural steel work, composition roofing, concrete and asphalt tile floors, terrazzo work, metal sash, ceramic tile work, air-conditioning. GENERAL CONTRACTOR: Steed Bros., Alhambra.

CHURCH AND EDUCATIONAL BUILDING, Los Angeles, Los Angeles County. The Church of Jesus Christ of Latter-Day Saints, owner. 124 x 72 ft. $68,000. ARCHITECT: Douglas W. Burton, Los Angeles, frame and stucco construction, tile roofing, hardwood and terrazo floors, plywood and hardwood paneling, 2 gas furnaces, concrete block wall, steel casement, steel columns. OWNER BUILDS.

PARISH HOUSE, TUCSON, ARIZONA. Grace Episcopal Church, owner, 5200 sq. ft., $50,000. ARCHITECT: William H. Carr, Tucson. GENERAL CONTRACTOR: F. B. Pacheco, Tucson, Ariz.

MEN'S DORMITORY BUILDING, Claremont, Los Angeles County. Pomona College, owner, 2 story, 30,000 sq. ft., $466,372. ARCHITECT: Sumner Spaulding and John Rex, Los Angeles. STRUCTURAL ENGINEER: C. Gordon De Swarte, Los Angeles. Reinforced concrete construction, tile and composition roofing, concrete floors, steel sash, heating from central plant. GENERAL CONTRACTOR: N. J. Brock & Sons, Inc., Los Angeles.

ELEMENTARY SCHOOL, Yountville, Napa County. Yountville Elementary School District, owner. 4 classrooms, kindergarten and toilet rooms, $87,039. ARCHITECT: J. Clarence Felciano, Santa Rosa. Frame and stucco construction. GENERAL CONTRACTOR: R. Taylor Willis, Napa.

WAREHOUSE, West Los Angeles, Los Angeles County. Janss Investment Corp., owner, $110,000. ARCHITECT: Paul F. Hartman, Glendale. STRUCTURAL ENGINEER: W. T. Wheeler, Glendale, 118 x 260 ft. GENERAL CONTRACTOR: Bibb, Remmen and Bibb, Glendale.

APARTMENT BUILDING, Los Angeles, Los Angeles County. Morris L. Levine, owner, 3 story, 36 family, 129 room, $300,000. STRUCTURAL ENGINEER: Geo. E. Brandow & Roy G. Johnston, Los Angeles. Frame and stucco and wood siding construction, 123 x 260 ft., composition roofing, hardwood asphalt tile and linoleum covered floors, forced air heating units, steel and pipe columns and tailings, plate glass, metal sash, tile baths and stall showers, swimming pool. GENERAL CONTRACTOR: Morris L. Levine, Los Angeles.

WASHINGTON SCHOOL SITE, San Lorenzo, Alameda County. San Lorenzo Elementary School District, owner. 12 classrooms, administration, 2 kindergartens, multi-purpose, library, kitchen, and toilet rooms, $435,196. ARCHITECT: Schmidts & Hardman, Berkeley.. Frame and stucco construction. GENERAL CONTRACTOR: Indenco, Oakland.

SHOPPING CENTER, Tucson, Arizona. Solot Realty Co., owner, $350,000. ARCHITECT: Anee J. Rysdale, Tucson. GENERAL CON TRACTOR: Sam Witt, Tucson.

WHERR ELEMENTARY SCHOOL, Hamilton Field, Marin County. San Jose Elementary School District of Marin, 11 classrooms, administration, 2 kindergartens, multi-purpose, kitchen, toilet rooms, $455,195. ARCHITECT: John Lyon Reid, San Francisco. Structural steel frame and frame and stucco construction, 30,000 sq. ft. GENERAL CONTRACTOR: William Horstmeyer Co., San Francisco.

NEW SEQUOIA JUNIOR HIGH SCHOOL, Fresno, Fresno County. Fresno Board of Education, owner. 2 science rooms, home-making units, library, 2 arts and crafts buildings, 1 shop building, cafeteria, gym and toilets, $1,224,365. ARCHITECT: Swartz & Hyberg, Fresno, frame and stucco con-

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struction, asbestos shingle roof. GENERAL CONTRACTOR: Harris Construction Co., Fresno.

DEL PASO HEIGHTS JR. HIGH SCHOOL, Del Paso Heights, Sacramento County. Grant Union High School District, owner. 9 classrooms, administration, multi-purpose, kitchen, home-economics, art, science, library, physical education, shops, clinic and toilets, $666,500. ARCHITECT: Leonard F. Starks, Sacramento. Frame and stucco, reinforced concrete and some structural steel. GENERAL CONTRACTOR: Holdener Construction Co., Sacramento.

LIFE SCIENCES BUILDING, UCLA West Los Angeles, Los Angeles County. Regents of the University of California, owner. 5 story, 115,000 sq. ft. of floor space. $1,603,000. ARCHITECT: Marsh, Smith & Powell, West Los Angeles. Face brick and reinforced concrete construction, deck type roofing, concrete floors, asphalt tile flooring, metal sash, tile work, two passenger elevators, one service elevator. GENERAL CONTRACTOR: Baruch Corp., Los Angeles.

NURSES HOME, Springville, Tulare County. Tulare-King Joint Tuberculosis Hospital District, owner, 38 nurses quarters, $172,267. ARCHITECT: James Lockett, Visalia. GENERAL CONTRACTOR: Robert L. Wilson, San Francisco.

STORE & APARTMENT BUILDING, Oakland, Alameda County. Emil Polse & Sam Garfinkle, owner; 18 apartments, $150,000. ARCHITECT: John B. Anthony, Oakland, 3 story, frame and stucco construction, Roman brick and plate glass store front. GENERAL CONTRACTOR: Carlson & Maier, Oakland.

POLYTECHNIC HIGH SCHOOL MUSIC, SPEECH AND BAND PRACTICE BUILDING, Riverside, Riverside County. Riverside City School District, owner, $175,560. ARCHITECT: Ralph C. Flewelling & Walter L. Moody, Los Angeles. Masonry and concrete construction, composition roofing, cement and asphalt tile floors, acoustical work, toilets, heating and ventilating, electrical work, plastering, steel sash. GENERAL CONTRACTOR: Dowd-Hoefer Co., Fontana.

TWO APARTMENT BUILDINGS, Oakland, Alameda County. A. Steffenson, owner. 34 rooms each, $160,000. ARCHITECT: Leonard F. Ford, Walnut Creek. 2 story frame and stucco construction. GENERAL CONTRACTOR: Metropolitan Buildings, Oakland.

EL RANCHO HOTEL ADDITION, West Sacrammento, Yolo County. Hull Hotels, owner. 31 rooms and baths, $138,856. ARCHITECT: F. W. Green, Glendale. 1 story, concrete block and frame construction, tile roof. GENERAL CONTRACTOR: Lawrence Construction Co., Sacramento.

SAN JOSE HOSPITAL ADDITION, San Jose, Santa Clara County. San Jose Hospital, owner. Laboratory addition, $89,395. ARCHITECT: Stone & Mulloy, San Francisco. 1 story, reinforced concrete and masonry construction. GENERAL CONTRACTOR: Bridge Construction Co., San Jose.

SUNDAY SCHOOL & SOCIAL HALL, Yuba City, Sutter County. Baptist Church, owner, $75,000. ARCHITECT: Herbert E. Goodpastotr, Sacramento, frame and brick, veneer, construction. GENERAL CONTRACTOR: C. A. Otto, Marysville.

SCHOOLS, El Monte, Los Angeles County. El Monte School District, owner. Site D and Site E schools, $376,870. ARCHITECT: Kistner, Wright & Wright, Los Angeles. Frame and stucco construction, composition roofing, concrete floor, asphalt tile floor, ceramic tile, wood sash, painting, plastering, plumbing, electrical work, acoustical work, radiant heating. GENERAL CONTRACTOR: Samuel O. Upton, Alhambra.

SUN EMPIRE SCHOOL, Kerman, Fresno County. Sun Empire Elementary School, owner. 13 classrooms, administration and toilet rooms, $245,000. ARCHITECT: William Hastrup, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: Clarence Ward Construction Co., Fresno.

SUPER MARKET BUILDING, Fresno, Fresno County. Farmers Market Shopping Village, owner. $220,771. ARCHITECT: Wm. Hastrup, Fresno. 1 story and basement, 36,000 sq. ft. GENERAL CONTRACTOR: L. H. Hansen & Sons, Fresno.

OFFICE BUILDING ADDITION, Bakersfield, Kern County. Ohio Oil Co., owner. 1 story, 5,000 sq. ft., $119,193. ARCHITECT: Ernest L. McCoy, Bakersfield. Frame and stucco construction, insulation, air conditioning, steel sash, asphalt tile floor. GENERAL CONTRACTOR: Guy E. Hall, Bakersfield.

MEN'S DORMITORY BUILDING, Claremont, Los Angeles County. Pomona College, owner. 30,000 sq. ft., $466,372. ARCHITECT: Sumner Spaulding and John Rex, Los Angeles; STRUCTURAL ENGINEER: C. Gordon De Swarte, Los Angeles. GENERAL CONTRACTORS: M. J. Brock & Sons, Inc., Los Angeles.

MARIEMONT ELEMENTARY SCHOOL, Sacramento, Sacramento County. Arden-Carmichael Union Elementary School District, owner. 1 story, 46,000 sq. ft., $375,666. ARCHITECT: John Lyon Reid, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Coastwide Construction Co., Stockton.

NEW UPPER GRADE SCHOOL, Lafayette, Contra Costa County. Lafayette Elementary School District, owner. 14 classrooms, boiler room and toilet rooms, $253,859. ARCHITECT: John Lyon Reid, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: W. H. Wisheropp Co., Oakland.

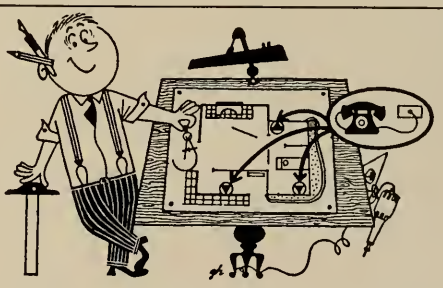
EXCELSIOR HIGH SCHOOL ADDITIONS, Norwalk, Los Angeles County. Excelsior Union High School District, owner. 1 story arts and science building, $244,800. ARCHITECT: Kistner, Wright & Wright, Los Angeles. GENERAL CONTRACTOR: Morley Bldg. Co., Beverly Hills.

SUPER MARKET BUILDING, San Jose, Santa Clara County. James G. Paps Co., owner. 1 story, 180 x 125, $500,000. STRUCTURAL ENGINEER: R. H. Cooley, Oakland. Concrete block, some structural steel, wood roof trusses, plate glass front. GENERAL CONTRACTOR: John J. Moore Co., Oakland.

NEW ELEMENTARY SCHOOL, San Jose, Santa Clara County. Alum Rock Elementary School District, owner. 18 classrooms, administration, 2 kindergartens, multi-purpose, kitchen and toilet rooms, $412,786. ARCHITECT: Kress & Gibson, San Jose. Frame and stucco construction. GENERAL CONTRACTOR: Nielsen & Nielsen, San Jose.

PARK VIEW ELEMENTARY SCHOOL, Chico, Butte County. Chico Elementary School District, owner. 8 classrooms, administration, kindergarten, toilet rooms, $284,084. ARCHITECT: Lawrence G. Thomson, Chico. Frame and stucco construction. GENERAL CONTRACTOR: Moore & Roberts, San Francisco.

FACTORY BUILDING, San Leandro, Alameda County. Rotec Punch Co., owner. 1 story, 80 x 134 ft., $75,000. ARCHITECT: Cecil S. Moyer, Oakland. Concrete block and wood and roof trusses. GENERAL CONTRACTOR: A. S. Holmes & Son, Oakland.



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IN THE NEWS

SAN FRANCISCO FACTORY ADDITION

The Planters Nut & Chocolate Company are building a 5-story, with basement, addition to their San Francisco manufacturing plant at 500 Paul Ave.

Of reinforced concrete construction the building will be 100 x 160 ft.; will include automatic sprinkler system, 2-freight elevators, and will cost $1,000,000.

H. J. Brunnier, San Francisco, is the Structural Engineer.

SACRAMENTO BUILDS NEW Y.M.C.A.

The first unit, comprising a gymnasium and club rooms, of a new Young Men's Christian Association building is being built in Sacramento at a cost of $300,000.

The building is of 2-story reinforced concrete construction.

Herbert A. Goodpastor, Sacramento, is the architect.

NEW LIBRARY FOR STOCKTON

The City of Stockton has authorized architect Peter L. Sala of Stockton, to draw plans for the construction of a new $1,600,000 Library Building to be built on Oak Street in Stockton.

The new building will contain 80,000 sq. ft. and will be of reinforced concrete construction.

HIGH SCHOOL GYMNASIUM

The Analy Union High School District of Sebastopol recently authorized architect Clarence Felciano of Santa Rosa, to design a new Boys Gymnasium for the Sebastopol High School which will have a seating capacity of 1200.

Showers, lockers, special exercise rooms, and team rooms, will be included in the new building of reinforced concrete construction. Estimated cost is $350,000.

TEMPLE BETH JACOB PLANNED IN OAKLAND

The Temple Beth Jacob of Oakland has commissioned the architectural firm of Ponsford & Price to draft plans and specification for the construction of a new $250,000 Temple in Oakland.

The new building is to be of reinforced concrete and frame construction.

ARCHITECT SELECTED

The board of supervisors of Napa county has commissioned architect Russell G. De Lappe of Berkeley, to draw plans and specifications for the construction of a county Detention Home.

The new building is being planned for Napa.

LOW RENT HOUSING

The Housing Authority of the City and County of San Francisco announced recently that preliminary drawing had been completed and Federal approval received, for the construction of a low rent housing project in the City of San Francisco to cost $6,000,000.

Site of the project is in the Turk, Eddy, Laguna, Buchanan, Pierce and Divisadero streets section of the City. Construction will include 7-eleven story and 7-three story buildings. Spencer & Ambrose of San Francisco are the architects.

NEW COURT-ROOM BUILDING

Architect Michael Goodman of Berkeley is designing a new Courtroom Building for construction in Redwood City by the San Mateo county board of supervisors.

The new building will contain 8-courtrooms, a new jail and sheriffs office and the program will include numerous alterations to the present County Court House.

Estimated cost of the project is $1,780,000.

ARCHITECT FOR SCHOOL

The Bellevue Union Elementary School District, Sonoma county, has selected architect C. A. Caulkins, Jr. of Santa Rosa, to design a new Elementary School building.

The new school structure will include 13-classrooms, kindergarten, administration, multi-purpose, kitchen and toilet rooms.

SAN JOSE COLLEGE NEW BUILDING

The San Jose State College will soon have a new Speech and Drama building on the campus as result of the construction of a new building containing 50,422 sq. ft.

Plans call for inclusion of a half basement. Estimated cost of construction is $965,047.

RIO VISTA MASONIC TEMPLE

The Rio Vista Masonic Hall Association recently authorized architect Herbert E. Goodpastor of Sacramento, to draw plans for construction of a new Masonic Temple for Rio Vista.

Plans call for a single story building, with basement, to cost about $80,000.

ARCHITECT SELECTED

Architect C. A. Caulkins, Jr. of Santa Rosa has been commissioned by the Bennett Valley Union Elementary School District of Sonoma county, to draw plans for the construction of a new school building near Santa Rosa.

The new building will contain 4-classrooms, office, and toilet rooms and will be of frame and stucco construction.

BAKERSFIELD RAZES SIX CITY SCHOOLS

Bakersfield school officials have approved demolition of six schools damaged by recent earthquakes.

To be demolished in their entirety are the Hawthorne, William Penn and Williams schools. The Jefferson School will be demolished with exception of six classrooms, all of the Lincoln school except the cafeteria, and the McKinley school except for two classrooms and cafetorium.

ARCHITECT MOVES OFFICES

Architect Wallace A. Stephens announces the removal of offices from Burlingame, and the opening of new offices at 327 Waverly Street in Menlo Park for the general practice of Architecture .

NAMED PRESIDENT OF THE AMERICAN WELDING SOCIETY

Fred L. Plummer, director of engineering for the Hammond Iron Works of Warren, Pa., has been elected president of the American Welding Society for 1953-54.

Plummer, a prominent engineer, is the author of two books and more than thirty technical articles on various phases of engineering.

Eric R. Seabloom, supervisor of field-engineering, Crane Company, Chicago, was elected first vice-presidetn, and J. H. Humberstone, vice-president Air Reduction Co., second vice-president.

Among directors elected to serve with Plummer were: Gairald H. Garrett, vice-president Thompson Pipe & Steel Co., Denver, and Harold R. Pratt, American Bureau of Shipping, Portland, Oregon.

SCHOOL BONDS APPROVED

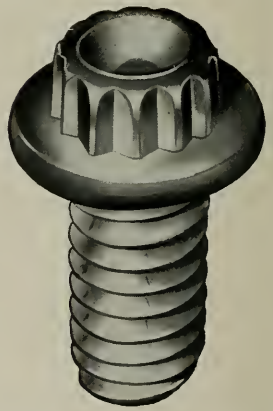
Voters of the Hayward Elementary School District recently approved a $950,000 school bond plan with funds to be used in the construction of four new Elementary schools.

ARCHITECT SELECTED

Architects Arthur D. Janssen and W. H. Daseking of Menlo Park have been selected by the Sequoia Union High School District officials to design a new Gymnasium Building and a Swimming Pool to be added to the Menlo-Atherton High School in San Mateo county.

TWELVE-POINT FASTENERS PLACED ON MARKET

A threaded, 12-point aircraft type fastener in ferrous, non-ferrous, and precious metals has been placed on the market by the Twelve-Point Fastener Company, 4517 Lorain Ave., Cleveland, Ohio.



Manufactured in such items as capscrews, machine screws, sheet metal screws, self tapping screws, recessed set screws, machine bolts, stove bolts, lag bolts, recessed socket bolts, automotive spring center bolts, in all standard diameters and lengths, for industrial, automotive and marine use.

APPOINTED SALES DIRECTOR

John Hellstrom, vice president of the American Air Filter Company, has been appointed director of Sales of all AAF and Herman Nelson products, with general offices in Louisville, Ky.

Hellstrom has been organizing the Company's Pacific Division which activity is centered in San Francisco.

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ARCHITECT SELECTED

Architect Ernest L. McCoy of Bakersfield (Cal.) has been commissioned by the Taft Elementary School District to draft plans for the construction of the new Lincoln Elementary School addition, consisting of 12-classrooms and toilet rooms.

ADDITION FOR COUNTY HOSPITAL

A grant of $239,000 in State funds has been recommended for the construction of a chronic disease wing of the Sonoma County Hospital at Santa Rose.

The county Board of Supervisors has selected the architectural firm of Stone & Mulloy of San Francisco to draw plans and specifications for the project. The new wing will accommodate 100-beds.

ARCHITECT OPENS NEW OFFICES

Architect Enar Eric Holm recently announced the opening of offices at 110 Market Street, San Francisco, for the general practice of architecture.

STATEMENT REQUIRED BY THE ACT OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946 (Title 39, United States Code, Section 233) SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF

Architect and Engineer, published monthly at San Francisco, Calif., for October 1, 1952.

1. The names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher, The Architect and Engineer, Inc., 68 Post St., San Francisco, Calif.

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Managing Editor, None.

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2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)

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5. The average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required from daily, weekly, semiweekly, and triweekly newspapers only.)

L. B. Penhorwood, Business Mgr.

Sworn to and subscribed before me this 24th day of September, 1952.

(SEAL) IRENE CRESPI

Notary Public in and for the City and County of San Francisco, State of California.

(My commission expires Jan. 3, 1955)

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ARCHITECT AND ENGINEER

ALL SAINTS' EPISCOPAL CHURCH
Carmel-By-The-Sea, California

ROBERT R. JONES, A.I.A., Architect

DECEMBER 1952

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Vol. 191 No. 3

ARCHITECTS' REPORTS—Published Daily

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COVER PICTURE

ALL SAINTS'
EPISCOPAL CHURCH
at
CARMEL-BY-THE-SEA
California

Robert R. Jones, A.I.A.
Architect

The new All Saints' Episcopal Church at Carmel-By-The-Sea, California, is the latest development of a Church activity started in the community about 1910.

The Church structure and landscaping is a pleasing blending of traditional and modern architecture, and visitors from all parts of the world have declared the project one of the most outstanding of modern times. (See page 10 for complete details.)

ARCHITECT & ENGINEER
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DECEMBER

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Let no pleasure tempt thee, no profit allure thee, no ambition corrupt thee, to do anything which thou knowest to be evil; so shalt thou always live jollily; for a good conscience is a continual Christmas.

- Benjamin Franklin -

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NEWS and COMMENT ON ART

SAN FRANCISCO MUSEUM OF ART

The San Francisco Museum of Art, War Memorial Building, Civic Center, is offering the following schedule of exhibitions and events during December and the holiday season:

EXHIBITIONS: Art for Christmas, Painting and Sculpture; Christmas Decorations, table ornaments and trees; items from the Albert M. Bender Collection; Children's Finger Paintings, from the Golden Gate Nursery Schools; continuation of San Francisco Women Artists; Six Canadian Painters; Silk Screens of Indian Paintings by W. Crumbo, and Gift Ideas for Christmas, under $25. A special group of Latin American Paintings from the Museum's Collections will be shown at the Parkmerced Branch, through December 31.

SPECIAL EVENTS: The Lecture Series, each Sunday, include Texture, Form and Color—S. F. Women Artists, by Barbara Fitzwilliams, December 7; Canadian Contrasts, by Lore Oppenheimer, December 14; and Albert Bender, a San Francisco Collector, by Anneliese Hoyer, December 21. The Monday evening Lecture Series will be held December 1 and 8 only, with a new series starting on Monday, January 5.

Art Classes—Art for the Laymen (Tuesdays); Sketch Club (Fridays); Painting Class (Fridays); and Children's Class (Saturdays) will not be held during the holidays, but will be resumed in January.

EXHIBITION OF CONTEMPORARY BRITISH LITHOGRAPHS

An Exhibition of Contemporary British Lithographs will be shown at the M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, during December.

The group of eighteen colored prints, originally made for the Festival of Britain, were recently shown at a special display at the British House of Commons.

Included in the group of exhibiting artists, are

(See Page 29)

SAN FRANCISCO MUSEUM OF ART

WAR MEMORIAL
CIVIC CENTER

THE ANNUNCIATION

AS VISUALIZED BY THE AMERICAN INDIAN

charcoal, by Luis Alberto Acuna

Collection of the San Francisco Museum of Art.

WESTERN CHURCH DESIGN

WESTWOOD COMMUNITY CHURCH

Los Angeles, Calif.

THOMAS & WAGONER, Architects

Crew of workmen carefully raise 59-foot high steel steeple to top of 80-foot high concrete facade of the new Westwood Community Church, 10497 Wilshire Boulevard, Los Angeles, by means of a 120-foot boom mounted on motor crane.

(Photo by U. S. Steel)

CHURCH OF LATTER DAY SAINTS
East Fresno, California
HAROLD W. BURTON, Architect

Decorative tile-brick exterior with large area devoted to glass windows, plus long sloping roof, combines to odd to the complete outward beauty of this new San Joaquin Valley church.

H. L. SHIELDS & SONS, General Contractors

BAPTIST
RIVER ROAD CHAPEL
EUGENE, OREGON

DONALD W. EDMUNDSON, A.I.A., Architect
NEIL R. KOCHENDOERFER, Associate

Located approximately five miles north of the City of Eugene, on the River Road. It is the first unit of a larger project.

The entire project is to consist of three units, the First being the Chapel shown above and now used for Church services. The Second unit will be a Sunday School addition connecting with the present entrance and extending to the right, and the Third unit the Main Auditorium which will connect with the Sunday School and extend back forming a "Z" shaped plan.

The Chapel has 2,057 sq. ft. and cost approximately $30,000. The over-all dimensions are 30 ft. x 80 ft.; the building has no basement due to occasional high water in this area. Seating capacity is 225.

From the main entry there is access to the toilet rooms, heater room and small kitchenette. High windows at the back of the auditorium will eventually open into a good sized Sunday School room and serve as overflow for the present Chapel. In the ultimate plan the Chapel will serve as a Fellowship Hall.

Exterior is split Roman Brick of a reddish-salmon color. This is over wood frame. Roof is supported with glue laminated beams with purlins. Two-inch tongue-and-groove decking is exposed with the bottom surface saw kerfed and stained. A rigid insulation is provided over the top of the decking and composition shingles are used for the finished roof.

Interior walls are finished with plywood, smooth below the wainscot with striated in the upper walls.

The Baptistry back of the Chancel is separated from the Auditorium with an open grill which has a removable section in the center.

First Baptist Church

LEBANON, OREGON

DONALD W. EDMUNDSON, A.I.A., Architect

NEIL R. KOCHENDOERFER, Associate

The First Baptist Church at Lebanon has 16,288 sq. ft., was constructed at a cost of approximately $95,000.00.

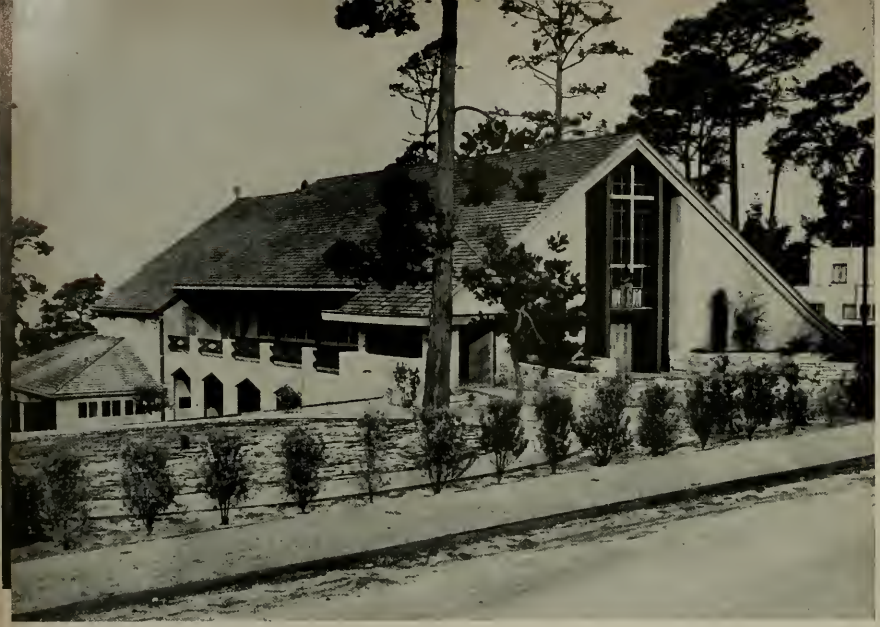
Overall dimensions are 132 ft x 82 ft., and the Auditorium seats 434. A Fellowship Hall at the rear of the Auditorium has double glazed windows so that by the using of microphones and speakers this area can be used for over-flow, or for mothers with small children. This room will seat approximately 200 in chairs and 150 at tables.

There is a small stage at one end and a kitchen at the other. The floor of this unit is approximately 4 ft. higher than the main auditorium which gives it a semi-balcony effect in its relations to the main auditorium. This also permits the Sunday School rooms under this part of the building to be well out of the ground.

The balance of the Sunday School area is under the main auditorium and is lighted by large windows opening into window areaways.

An interesting condition surrounding the construction of this building was the fact that the congregation started with very limited funds and with the hope that they might enclose the building and get it under roof if no more. After that they hoped to make a drive to get at least the Sanctuary finished. However, as the building progressed their enthusiasm grew and was reflected in their finances so that they were able to complete the entire building, purchase pews and most of their Sunday School equipment without any undue delay.

LEONARD SWINK, Construction Supervisor



PHOTOS by ARTHUR McEWEN

ALL SAINTS' EPISCOPAL CHURCH

CARMEL-BY-THE-SEA, CALIFORNIA

ROBERT R. JONES, A.I.A., Architect

First Episcopal church services were held in this community as early as 1910, however, it was not until Christmas Day 1912 that the first church services were held in a church building and on that day services were conducted in the fore-runner of today's building by the Reverand Charles Gardner, D.D., then Chaplain at Stanford University in Palo Alto.

Subsequent expansion and development of facilities were made until July 1948 when a new building fund campaign under the chairmanship of M. R. Allen, USN, RET., was launched and Architect Robert R. Jones, A.I.A., was engaged to prepare plans and specifications. Ground breaking ceremonies for the new building were observed on February 5, 1950, and the completed church was dedicated with appropriate observations early in 1951.

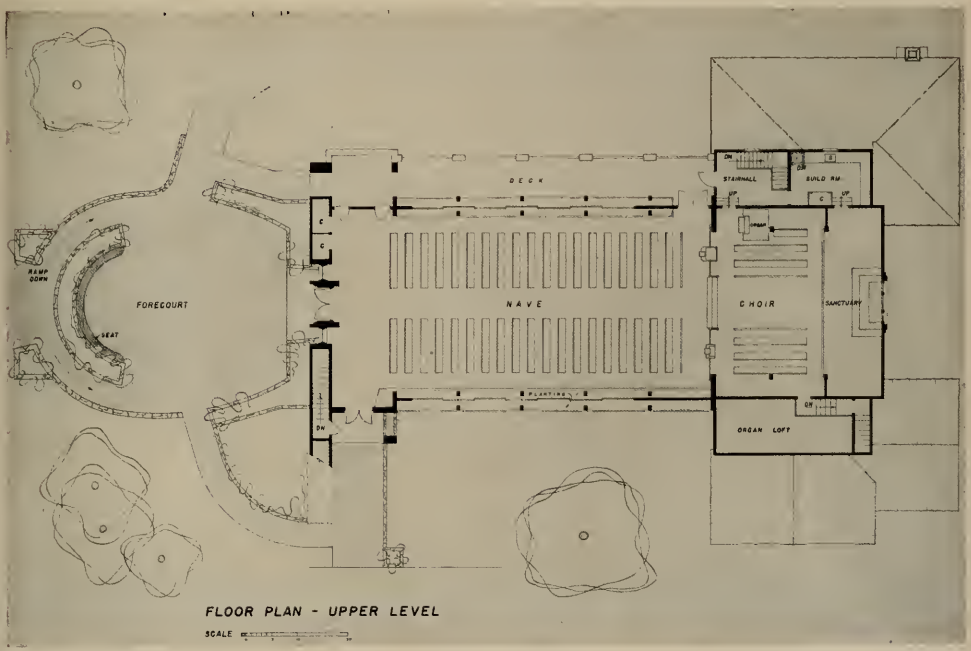
Every well designed building is planned to harmonize with site surroundings and fill a definite place in the community, therefore architecturally the All Saints' Episcopal Church in Carmel-by-the-Sea, is a unique blending of traditional church structure features and modern church design. The customary has been respected by architect Robert R. Jones, A.I.A., and his staff, and the drastic has been avoided with the result a graceful, pleasing church.

The architect's problem was to design a building which would provide for all the needs of the church on a limited budget and at the same time achieve spiritual inspiration dignity and inspiration in a relatively low structure.

The steepness of the terrain on the site, the placement of trees and the future expansion of the building were major problems confronting the architect and were factors dictating to a large extent the final type and size of church constructed.

To achieve the greatest height in the church proper, all use of horizontal cross-ties was eliminat-

FLOOR PLAN — upper floor level



Top View—Shows detail of entrance; large cross over doorway and tall slender stained glass windows at either side of door which extend from entrance floor level to roof.

Lower View—Details landscaping arrangement of entrance; long sloping roof, and wings (at right) of lower floor level service rooms.

ed from the construction by designing laminated wood arches, similar in engineering principle to the Gothic arches. These arches support the ceiling and the roof of the main church and rest upon a concrete slab floor, which in turn rests upon the reinforced concrete construction of the lower floor.

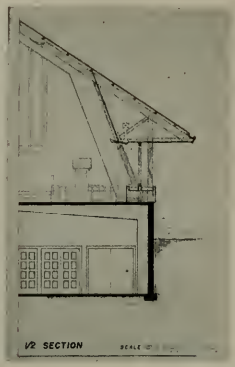
The concrete slab of the lower floor contains radiant heating, providing the main source of economical all-year heating for the entire church. The main church is heated by a forced hot air system easily regulated for comfort, depending upon the number of people assembled in the church. To facilitate servicing and maintenance, and with economy of installation in mind, all heating and ventilating ducts and electrical conduits are housed in the spaces over the windows between the inner ceiling construction and roof line of the main church.

After solving the site and functional problems, consideration was given to coordinate in the structure the simplicity of detail which gives its distinctive character. Instead of superficial and meaningless ornamentation, there was incorporated as integral parts of the structural design of the building areas for wood sculpture and for stained glass windows, both representing two of the oldest and finest liturgical arts. Towering on each side of the main entrance, for example, are two slender panels of stained glass, providing a striking yet dignified frame for the doorway and the massive gilded cross above it.

In the upper half of the north stained glass panel is shown Michael the Archangel, who symbolizes the battle against evil. Beneath him is a similar representation of Archangel Gabriel. On the south panel are companion stained glass windows portraying St. Raphael and St. Uriel. God's eternality is signified by the cross and circle above St. Michael.

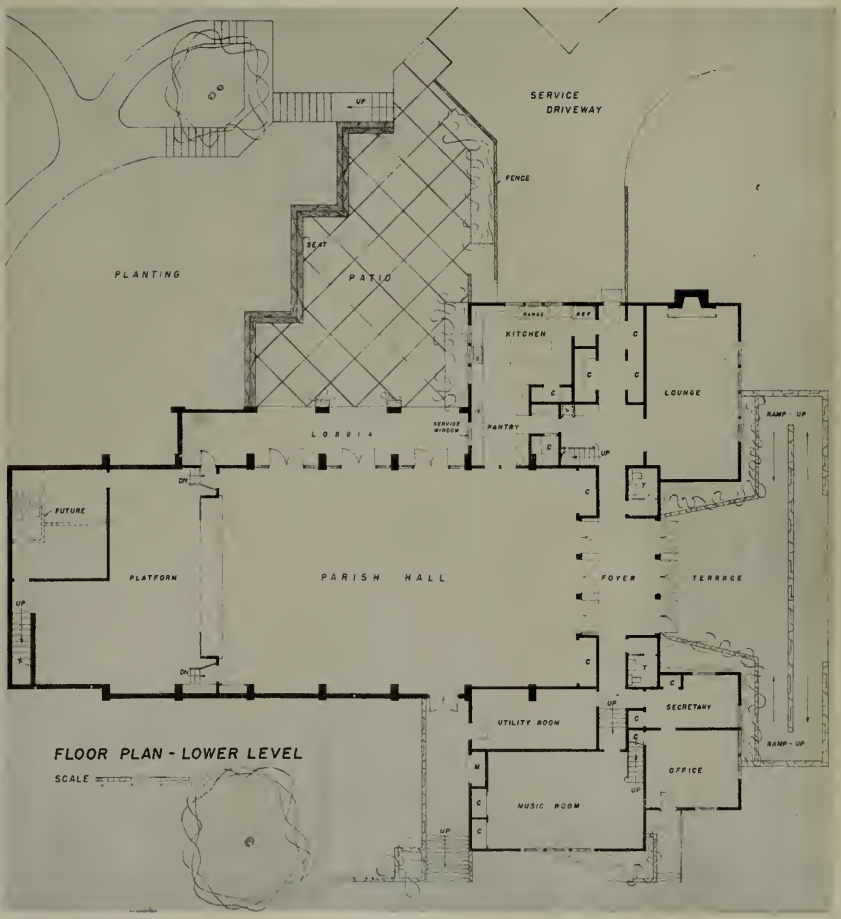
Arrangement of the Nave and Chancel is planned with exposed wood-arch supports of roof and windows that open the church to the trees and the

Building viewed from northwest corner, showing sloping site. Wings at right house Music Room, Rector's Office, and Parish Lounge.



LEFT: Detail one-half section, giving floor level in relation to ground levels.

LOWER: Detail of floor plan showing the lower level, arrangements of service facilities and ground areas.



sky thereby exposing to the church interior some of the local beauties of nature that God has created.

Forty pews provide seating in the nave.

On either side of the steps to the chancel are simple low screens into which are set the pulpit on the Gospel side and the lectern on the Epistle side. All the woodwork, other than the seating, is in Janezaro wood.

Together with the large stained glass windows, the chief decorative feature of the sanctuary is the reredos. This, by long traditional usage, occupies the space between the altar and the window and is about of an equal height with the altar. Together the altar, the reredos, and window form the focus or main feature of the church, for thereon are depicted either representationally or symbolically the central tenets of the Christian faith.

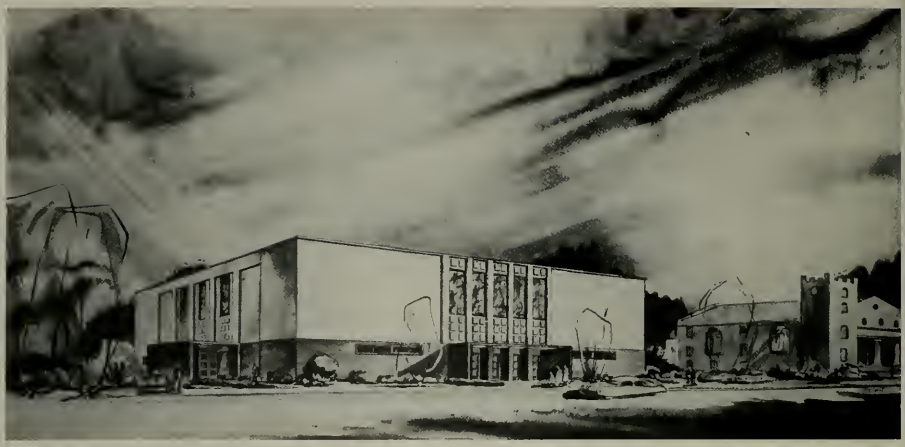
The warm hospitable glow of the redwood interior is carried out further in the background colors of the stained glass windows, chosen from the copper, bronze and wild honey colors, the sherry and the chocolate tones. These contrast with the turquoise and purples of the secondary figures, and are brought to a climax in the rich rubies in the robe of Our Lord in the great chancel group over the main altar.

The entire furnishings and windows reveal deep spiritual understanding, great artistic gifts, and skilled craftsmanship on the part of those who created them.

Beneath the church is a spacious Parish Hall with a full size stage, a kitchen of restaurant proportions, a lounge, music room, and parish offices.

The landscaping which gives the church its fine setting was planned by Thomas Sherlock, landscaping architect, while the patio and terrace was designed by landscape architect Thomas Church.

Detail of Nave and Chancel showing exposed wood-arch roof features.



ARTIST'S PERSPECTIVE OF NEW CHURCH

MENNONITE BRETHREN CHURCH

Reedley, California

ARCHITECTS { H. RAFAEL LAKE
ELSO B. DiLUCK

Structural Engineer: F. W. KELLBERG

Mechanical Engineer: H. WAYNE TAUL

Electrical Engineer: EDWARD LOWE

COST $375,000

One of the most outstanding among new church construction in the San Joaquin Valley of Central California, is the large and distinctive Mennonite Brothers Church building in Reedley, center of a diversified agricultural community.

The new structure was designed by the architectural firm of H. Rafael Lake and Elso B. DiLuck of nearby Fresno, to serve the needs for a central point of church activities and at the same time could be used for a number of festivities in conjunction with the church itself.

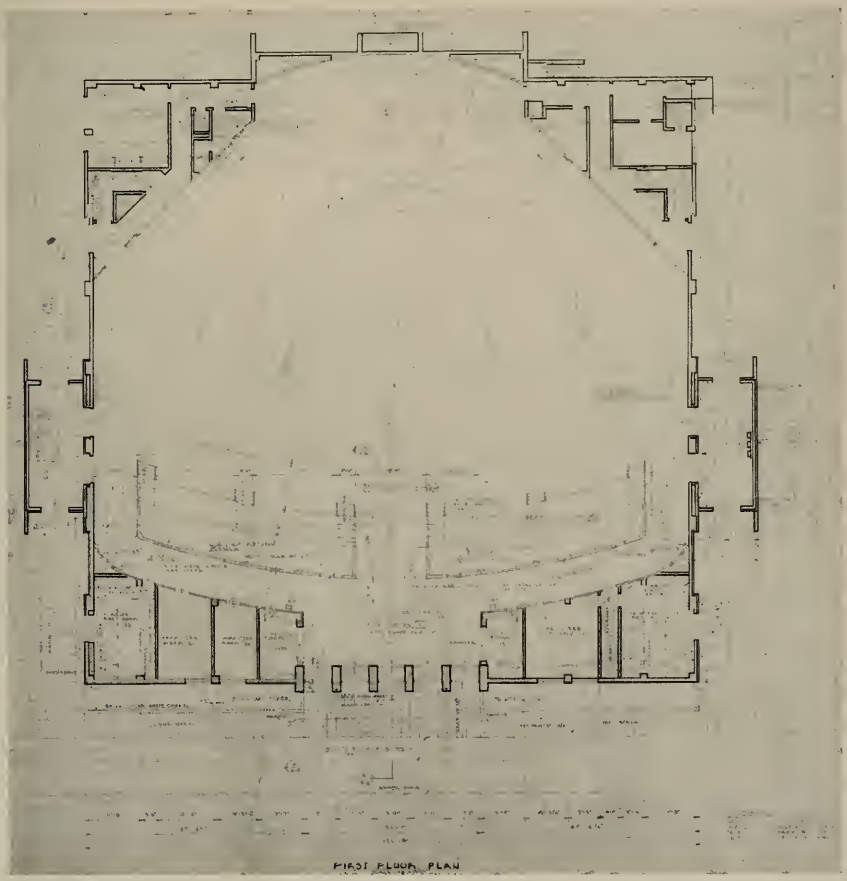
Exterior and interior design of the building is rather conservative and is in complete harmony with architectural development of nearby properties and the surrounding areas.

The building is of reinforced concrete and steel, with ample use of windows for natural lighting and decorative purposes. Entrances and exits provide for full or partial use of the building, depending upon the occasion. Provision has been made for seating 2,500 persons.

Due to wide variations of temperatures in the area between summer and winter, complete radiant heating has been installed for winter use and to assure a comfortable temperature during the warm and hot summer months a thorough, modern, air conditioning system has been provided.

Actual construction of the church was under the supervision of William D. Wiebe, chairman of the Building Committee.

FIRST FLOOR PLAN—



MARBLE FROM THE HOLY LAND

STORY OF A MODERN BUILDING PRODUCT FROM THE LAND WHERE JESUS WALKED

Marble has been used in the building of houses of God in the Holy Land since the time of Solomon's mighty Temple in Jerusalem when, says the First Book of Kings, "Solomon had fourscore thousand hewers in the mountains . . . and they brought great stones, costly stones, and hewed stones, to lay the foundation of the house . . . " The exquisite, Roman-style synagogue at Capernaum, where Christ is thought to have preached, is of white marble. Golden marble decorates the facades of some of Nazareth's most imposing churches. Pink-streaked marble has been used for millenia in Jerusalem. It was a favorite building material and, man believed, all the marble sources in the little land of Palestine, smaller than the state of Maryland, were known.

The experts were, therefore, distinctly surprised when, some twenty years ago, archeologists came upon the remnants of a number of ancient synagogues in the Valley of Esdraelon. The synagogues dated back to the time of Jesus, whose childhood hometown of Nazareth overlooks the valley from the Galilee hills to the north, and it was considered possible that the original version of the synagogue where Christ studied may have resembled them. The newly-discovered remains disclosed, however, that the valley synagogues were built of a cream-and-grey marble which came from none of Palestine's known quarries. Was the marble imported? It did not seem logical that the ancient Hebrews would transport marble hundreds of miles when their land produced many varieties of excellent stone. Where, then, did the marble originate?

For two decades, archeologists in the Holy Land puzzled over this problem. The solution was found by accident a year and half ago when a member of the Jewish farm settlement of Hefizbah in the historic valley, while on a stroll, stumbled upon a huge and neglected quarry in the foothills of Mount Gilboa. The quarry, according to mining engineers and archeologists who soon examined the site, had been untouched for 1,900 years, but the soft-hued marble still glowed in the sun.

It was a most unlikely site. Mount Gilboa is traditionally believed to yield . . . nothing. For it was upon Gilboa that King David placed one of the most bitter curses of all time, a curse of vengeance for the deaths of Saul anl Jonathan following the Israelite defeat on the mountain at the hands of the Midianites:

> "Ye mountains of Gilboa, let there be no dew, neither let there be rain upon you, nor fields of offerings for there the shield of the mighty is vilely cast away, the shield of Saul as though he had not been anointed with oil."

Even in modern times, Gilboa towered above the

(See Page 31)

MARBLE INDUSTRY

ANNUAL CONFERENCE MARBLE INSTITUTE OF AMERICA PLEDGES SUPPORT

Building Material Costs and Maintenance Important

Lowest annual cost will be the recommended yardstick for conservation in government building, James W. Follin, chairman of the subcommittee on Construction, Conservation Division, Defense Production Authority, told the Marble Institute of America, at its recent Annual Meeting held at Sun Valley, Idaho.

JAMES W. FOLLIN
Marble Institute Speaker

Commenting upon the report that the Building Research Advisory Board was recommending lowest annual cost as the yardstick for conservation in government building, Follin said: "There were about as many opinions as to what conservation in construction denoted as there were people with whom the question was discussed. Was it the

idea to conserve only controlled materials, or only critically short materials, or all materials, or money, or just what was the important saving to be made?"

Lowest annual cost was the yardstick agreed upon as the best day-in and day-out policy even in time of national emergency or shortage. This, Mr. Follin explained, was the combination of first cost with maintenance and operating expense over the length of time a facility is used. The pyramiding of operating costs makes important the selection of building equipment and finishes which require less maintenance.

If this program is accepted and carried out satisfactorily, it should mean that the smallest number of taxpayer's dollars will be required to maintain a given improvement. It is also the fairest basis for considering competing constructions, materials, or equipment, BRAB found. On the whole it gives quality products an even start with other products.

But Mr. Follin warned that while this is sure to appeal to suppliers of quality products they should guard against disappointment in the way in which the policy is applied in particular instances. "In the first place, the standard of service required and the period of use of any structure, which largely dictate the materials to be used, is an administrative determination," he pointed out.

"In the second, there may be inadequate information to give precise estimates of maintenance and operating expense even on materials long in use, not to speak of fairly new products on which such information is impossible." He suggested that one safeguard would be to gather, and make available, authentic technical information of this for the use of designers and administrators.

"Opinions are sure to differ as to how long a useful life should be credited to today's consthuction, to today's most durable office buildings," he continued. Office buildings built 50 years ago are generally obsolete. Will this be true of today's construction, a half century hence?

"Granted that some of today's construction will be demolished in the next 50 years because the land has become too valuable or because they stand in the way of some major public improvement, I am of the opinion that the great majority of them will not be torn down as long as they are structurally sound and can be reconditioned, re-equipped, and refurbished to meet the occupancy demands of the 21st century. Today's buildings are so designed that piping or equipmemnt can be replaced with relative ease.

"Conservation is fast becoming a most essential guide in construction. In the past we Americans have had such an abundant supply of materials and manpower that we have not yet learned the lessons of thrift. Now we realize that our resources are not inexhaustible. The principal object of conservation in building, says BRAB, is to help fulfill the Nation's requirements for building under any circumstances with maximum efficiecny in the use of money, manpower and materials."

MARBLE INSTITUTE SUPPLIED DATA ON MAINTENANCE COSTS

A dramatic challenge to members of the building industry who feel that marble is expensive has been issued by facts and figures compiled by the Marble Institute of America, and published in booklet form entitled "Marble Costs Less, Wears Better, Lasts Longer." The material will be used as the basis for a nation-wide educational campaign.

Included in the material presented to the Institute's members during the recent annual conference at Sun Valley, Idaho, is a number of case studies which the Institute believe represents a good cross-section of experience throughout the nation and covers a sufficient amount of time to be factual in application.

A "plumb-bob" view of the marble floor of the Grand Central Terminal over which 220,000,000 pass annually—has been in service over forty years.

To demonstrate the value of marble in remodeling and renovating buildings, a study of the Bartholomew Building in New York City, where when the owners decided to make various capital improvements, one of the first steps was the installation of improved lightiing and a marble wainscot 5 ft. 4 in. high in the corridors of the twenty-floor building. This project has been carried out one floor at a time, in the twenty-one year old building, and ten floors have now been completed. The history of the Grand Central Terminal Building is also cited and includes a letter from John J. Ponce, Superintendent of Building Maintenance at the Terminal, in which the foresight which prompted

(See Page 36)

ENGINEERING REPORT
TEHACHAPI EARTHQUAKES

Panel of Distinguished Engineers Discuss Cause and Effect of Quakes

A number of technical phases of the recent Tehachapi earthquakes in the lower San Joaquin Valley, were presented to members of the Structural Engineers Association of Northern California at a meeting in San Francisco, which many engineers throughout the west will be interested in reading. Accordingly the following briefs have been prepared for publication in Architect & Engineer magazine:

HENRY J. DEGENKOLB

Summary of talk by Henry J. Degenkolb, Structural Engineer with John J. Gould, Consulting Engineer, San Francisco.

The major lesson to be learned from the Tehachapi earthquake were not to be found in the obvious damage to the old masonry structures that failed so completely and were featured in the newspaper accounts of the disaster. These merely re-emphasized what had been learned in previous earthquakes—the necessity for good design, workmanship, and the tying together of a building to make it act as a unit. Our best information comes from the performance of buildings that did not fail and especially in those that sustained only partial failure.

Flexible buildings, such as those made of timber, corrugated iron, or steel panels such as in service stations, were either undamaged or very slightly damaged, even though they were not designed for lateral forces and seemed to be of very poor design and construction for even vertical load only. The vast majority of timber homes and small commercial buildings in the area were undamaged.

Buildings which had been designed with some lateral force resistance in mind performed acceptably, even though they would not meet present day code requirements. The Tehachapi Valley Union High Schol, the Tehachapi Elementary Schobl, Odd Fellows Hall, the Tehachapi Lumber Co., and other well designed buildings were virtually undamaged. The Town and Country Market, good for only about 5½ lbs. of wind had broken windows and some cracked plaster, but was open for business shortly after the earthquake.

The Tehachapi Institution for women, built in 1932 before the Riley act or Field Bill, had badly wrecked tile partitions and wood roof framing. The tile partitions evidently failed at a rather low calculated unit stress. The exteriors of these buildings appeared to be virtually undamaged and gave little notice of the damage found within.

In Arvin, where the construction is of a more recent date, much less damage was found although the evidence seems to indicate that it was shaken more severely than Tehachapi. An interesting structure here was the George Simpson Motors —an auto agency which suffered very little damage in spite of the large amount of glass used in its modern design.

WILLIAM K. CLOUD

Abstract of talk by William K. Cloud, Acting Chief, Seismological Rield Survey, U.S.C.G.S.

The 21 July earthquake operated instruments at 39 of the U. S. Coast and Geodetic Survey strong motion stations. Maximum accelerations and displacements recorded at several stations were:

Station		Acceleration*	Displacement*
Taft	31 miles from epicenter	18% gravity	1.5 inches

Pasadena	76 miles from epicenter	5% gravity	1.3 inches
Hollister	136 miles from epicenter	1% gravity	0.3 inches

* Based on preliminary scaling of records.

At a later date, the USC&GS will publish analyses of all records and also an isoseismal map of intensities.

At the present time two very different scales for rating earthquakes are in general use. They are not synonymous. The Modified Mercalli Intensity Scale of 1931 is a measure of observed effects or violence, and for any earthquake there are many intensities; the intensity at any particular spot depending in large part on distance from epicenter, local geology, and condition of structures. The Gutenberg-Richter Scale of Magnitude on the other hand is a measure of total or original energy. There is, thus, but one rating on this scale for each earthquake and it does not relate to what happened, to what the effects were.

Without explanation, in isoseismal map or other form, comparison of different earthquakes by use of Modified Mercalli Scale ratings is apt to be misleading. The Gutenberg-Richter scale can be used to compare earthquakes but as the comparison is one of size and not effect, it too is apt to be misleading. Both scales have their place and are very useful tools—only, however, if understood and properly used.

In conclusion, it is urged that extreme caution be exercised when dealing with earthquake data, neither swallow camels nor gag on gnats.

S. B. BARNES'

Condensation of talk by S. B. Barnes', Consulting Structural Engineer of Los Angeles.

One was impressed by the apparent high intensity of shock and damage at the Southern Pacific Railway tunnels in the Tehachapi quake.

The east-west direction of the second quake at Bakersfield was markedly evident.

Buildings that we expected to be damaged, were damaged.

Buildings designed for earthquake stood up quite well, indicating that our general methods of design are reasonably satisfactory for limited height buildings.

The Tehachapi quake as it affected Los Angeles, although of lesser intensity, appeared to have a much longer period. It affected our taller buildings but did little damage to the shorter, stiffer structures. I would estimate the period at Los Angeles to be in the order of 0.5 seconds.

Some of the taller buildings in the Los Angeles area suffered considerable damage in cracked exterior and interior walls. Plate glass and plastered partitions suffered severely.

The Statler Center at Los Angeles designed for

(See Page 32)

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WITH THE ENGINEERS

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San Francisco Section
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STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

William J. Bobisch, director of design, Eleventh Naval District Public Works office, San Diego, was the main speaker at the December meeting held in the Alexandria Hotel in Los Angeles. His subject was "Pre-cast and Tilt-up Concrete Construction in the 11th Naval District" and many of the projects using pre-cast and tilt-up concrete was discussed from the viewpoint of design, construction methods and costs. Colored slides were used to show actual construction applications.

President Harold P. King made his annual report of Association activities during the past year and reported the Board of Directors had endorsed action of the California Council of Professional Engineers relating to amending the Civil and Professional Engineers Registration Act contingent upon further study of the matter; approved strengthening the Riley Act to increase the seismic percentage to three percent in lieu of two percent, and action which would require the governing body of any municipality or county to see that plans and specifications for building construction bear the signature of a certified architect, civil engineer, or structural engineer, and bear his certification that they comply with provisions of the Act.

NEW MEMBERS: Reuben Ralph Alvy and Bernhard Cardan, Members. Edgardo Contini, Richard W. Dennis, and Paul A. Hansen, Associates.

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AMERICAN SOCIETY OF CIVIL ENGINEERS SAN FRANCISCO SECTION

The December meeting held in the Engineers Club of San Francisco on the 16th, was devoted to a program of the "Presidential Election—Campaign in Reverse", and featured Ralph G. Wadsworth, B. A. Etcheverry, James I. Ballard, Robert Lipman, and Walter L. Huber as participants.

H. W. Haberkorn and H. B. Corlett have been named to represent the Society on the San Francisco Engineering Council in its program of student counseling.

Plans are being made for the ASCE Convention which is scheduled for San Francisco, March 3-6. In addition to technical sessions it is planned to take delegates on personal tours of outstanding engineering projects in the Bay Area.

FEMINEERS

The "FEMINEERS", wives of members of the American Society of Civil Engineers, and Structural Engineers Association of Northern California, observed a "Night in Hawaii" buffet dinner dance

Structural Engineers Association of Southern California

Harold P. King, President; Ben Benioff, Vice-president; Chas. Corbit, Jr., Sec.-Treas.; Don Wiltse, Ex. Sec. Directors Harold P. King, Ben Benioff, Donald F. Shugart, Wm. T. Wright, Wm. T. Wheeler, Henry M. Layne and Joseph Sheffet. Office, 1700 So. Main Street, Los Angeles.

Structral Engineers Association of Oregon

R. Evan Kennedy, President; Guy H. Taylor, Vice-President; James R. Griffith, Secretary-Treasurer; Directors Jerome A. McDevitt, H. Loren Thompson, and Robert L. Tidball. Offices, Portland.

Puget Sound Engineering Council (Washington)

R. E. Kister, A. I. E. E., Chairman; E. R. McMillan, A. S. C. E., Vice Chairman; L. B. Cooper, A. S. M. E., Secretary; A. E. Nickerson, I. E. S., Treasurer. Offices. L. B. Cooper, c/o University of Washington, Seattle 5, Washington.

American Society Testing Materials Northern California District

L. A. O'Leary, Chairman; P. V. Garin, Vice-chairman; H. P. Hoopes, Sec. Office Sec., 1550 Powell St., Emeryville, Calif.

Society of American Military Engineers—San Francisco Post

Brig. Gen. Dwight W. Johns, USA, Ret., President; Cmdr. N. M. Martinsen, CEC, USN, 1st Vice President; Lt. L. L. Wise, CEC, USNR, 2nd Vice President: Robert P. Cook, Secretary; O. Spier, Treasurer; and Rear Admiral C. A. Trexel, CEC, USN (Ret.); Capt. Cushing Phillips, CEC, USN; Capt. H. F. Ransford, CEC, USN; Clyde Bentley; Lt. Col. James D. Strong, CE, USA; and J. G. Wright directors.

at the San Francisco Rowing Club on December 11th.

The event served as a means of raising funds for the "Femineers" Engineering Scholarship which the organization expects to present in January.

Mrs. John Feis and Mrs. Jason Bloom, served as co-chairmen of the event.

STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

Committee reports, election results and a review of Association activities highlighted the regular December meeting, held in the Engineers' Club in San Francisco.

Showing of the Southern Pacific Company's motion picture of the recent Tehachapi Earthquakes, emphasized the effect of earthquakes on construction in areas affected and the need for continuing study of design and use of materials in construction.

ELECTED PRESIDENT AMERICAN SOCIETY MECHANICAL ENGINEERS

Frederick S. Blackall, Jr., president and treasurer of the Taft-Pierce Manufacturing Company, Woonsocket, R. I., was elected president of The American Society of Mechanical Engineers for 1953 at the Society's 73rd annual meeting held recently in New York City.

Election of four regional vice-presidents included: Henry R. Kessler, manager Republic Flow Meters Co., New York; Paul R. Yopp, district sales manager The Babcock & Wilcox Co., Atlanta, Ga.; Ben George Elliott, professor of mechanical engineering, University of Wisconsin, Madison, Wis.; and Harry R. Pearson, personnel director Dallas Power & Light Co., Dallas, Texas.

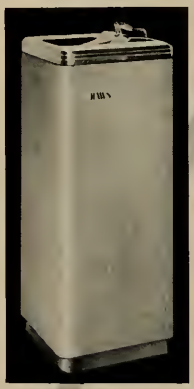
AMERICAN SOCIETY FOR METALS PUGET SOUND CHAPTER

(Reported by H. T. Southworth, Boeing Airplane Company)

Albert G. Zima, head of the West Coast Technical Section, International Nickel Company in Los Angeles, discussed the subject of "Modern Cast Irons" before the November meeting.

Zima pointed out the impressive development made in cast irons over the past 30 years. This period has seen the evolution of a large family of cast irons from the relatively weak material of 30 years ago which could only be specified as coarse or fine grained cast iron and was often employed only as a "space filler." In this time the strength of unalloyed cast iron has been doubled and many special purpose irons have been developed with exceptional properties for applications such as heat or corrosion resistance. Zima's definition of cast

(See Page 29)



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Season's Greetings

As members of the Producers' Council, we are engaged in the sale of quality building products and equipment.

To provide this quality in our products, we must as a matter of necessity obtain a price that often times requires us to obtain a preference over our competitors.

This, of course, is nothing new, and has been the general scheme of things since the stone axe was the accepted instrument of persuasion. Fortunately for the salesman, there are factors other than price surrounding a sale.

As evidence of this, we offer the following bit of logic that was composed in the middle of the last century and with which we think you will agree.

> "It's unwise to pay too much, but it is worse to pay too little.
> When you pay too much, you lose a little money.
> When you pay too little, you sometimes lose everything, because the thing you bought was incapable of doing the thing it was bought to do. The common law of business balance prohibits paying a little and getting a lot—it can't be done. If you deal with the lowest bidder, it is well to add something for the risk you run. And if you do that you will have enough to pay for something better."
>
> —John Ruskin

USE QUALITY PRODUCTS — CONSULT AN ARCHITECT

WITH THE ENGINEERS

(From Page 27)

iron "steel in which graphite is dispersed throughout its mass," gives a hint as to the vast number of alloys that may be considered under the classification of cast iron.

Zima discussed at length the role of graphite as effecting the characteristics of cast iron and how the properties may be influenced by control of the form and distribution of the graphite. Such control may be obtained by various inoculatants introduced into the superheated melt, control of cooling rates, and by use of alloying elements.

Zima pointed out the many advantages of cast iron and illustrated these by calling attention to several applications, such as engine blocks, where it has been uniquely successful for many years. The qualities and uses of the martensitic and pearlitic cast irons were also included.

Considerable attention was then devoted to the spheroidal or ductile irons. These most recently developed irons have brought a 100% increase in strength over gray iron. Zima emphasized that the ductile irons will not replace other irons or steels but will find many applications on their own merits as they present a new set of very desirable properties.

NATIONAL CONVENTION AMERICAN SOCIETY CIVIL ENGINEERS

The national convention of the American Society of Civil Engineers will be held in San Francisco on March 3-6, with a technical program of 20 half-day sessions to be presented, one of the largest programs ever scheduled.

Field trips will include Moffet Field, P. G. & E. plants at Pittsburg and Antioch and other outstanding engineering projects in this area.

SOCIETY OF AMERICAN MILITARY ENGINEERS—SAN FRANCISCO POST

Brig. Gen. Robert H. Wylie spoke on the subject "Master Planning for the Port of San Francisco," at the regular December meeting, which was held in the Presidio Officers Club of San Francisco.

NEWS & COMMENT ON ART

(From Page 6)

many well known English illustrators and instructors in schools and academies of the British Isles. All are members of the Artists International Association.

A wide variety of style and subject matter is shown including: satire, bold line drawings, and narative themes contributing to the diversity of

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the prints. Combined use of vivid colors and balanced design makes this an interesting Exhibition and gives an insight into the work being done by the contemporary artist of Britain.

CITY OF PARIS

The Rotunda Galley of the City of Paris, San Francisco, under the direction of Beatrice Judd Ryan, is presenting an Exhibition of Paintings by Karl Baumann, Jean McReynolds, Henry Pancher, Kenneth Potter for December and the holiday season.

Also shown during the month of December is a special exhibit of Ceramics by May Bishop.

M. H. deYOUNG MEMORIAL MUSEUM

The M. H. deYoung Memorial Museum, Golden Gate Park, San Francisco, under the direction of Walter Heil, presents a Christmas and Holiday program including:

EXHIBITIONS: Paintings by Grandma Moses; Models of Inventions, by Leonardo Da Vinci; Pottery, by Herbert Sanders; Contemporary British Lithographs; and the 32nd Annual Exhibition of the California Water Color Society. This young and independent group of California artists have dealt in its own way with the California scene and has become recognized throughout the nation for

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watercolors that are large, free, and luminous, and watercolors that contain a basic lyrical realism.

This year's group of 125 paintings were selected by a Jury composed of Jules Engel, Richard Haines, Clarence Hinkel, Joan Irving, and Douglas Parshall.

EXHIBIT OF PAINTINGS BY GRANDMA MOSES

The M. H. deYoung Memorial Museum in Golden Gate Park, San Francisco, is showing a special exhibition of twenty-five paintings by Grandma Moses during December.

Although virtually unknown twelve years ago, Grandma Moses has become at the age of 93, a figure of international prominence. Her work has been exhibited in Europe and America, and her paintings are included in numerous collections throughout the world. Her paintings reflect her love of children, animals, color, and nature in general.

A.I.A. ACTIVITIES

(From Page 25)

Recent new members include George H. Anderson, Barrie D. Branch, and Arnold W. Eckhoff, Corporate Members. John C. O'Brien, Associate Member.

Mrs. Waldo B. Christenson has been named president of a group of architect's wives who have formed an organization to assist in arrangements for the AIA national convention in 1953.

PORTLAND ARCHITECTURAL FIRM EXPANDS PROFESSIONAL SERVICE

Donald W. Edmundson and Neil R. Kochendoerfer, architects of Portland, have announced that R. Evan Kennedy, Professional Engineer, has joined their staff as Chief Engineer in charge of structural and civil engineering design.

Kennedy is well known in construction and engineering fields, and is currently director of the Professional Engineers of Oregon and the Oregon Building Congress. He is a past president of the Structural Engineers Association of Oregon; an associate member of the ASCE, and member of the Colorado Society of Engineers.

MARBLE—HOLY LAND

(From Page 18)

green valley, sterile and lonely. Within a few months after the discovery of the ancient quarry, however, Gilboa was no longer lonely nor—from the viewpoint of social usefulness—sterile. The mountain rang with the hammers of laborers who began their operations with the cutting of a fifteen hundred foot block of the cream-and-grey stone.

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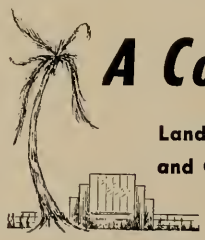

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Samples were sent to the United States where tests conducted in New York University laboratories showed that Gilboa, the barren, yields marble stronger than that required gy American building codes.

The first shipment of Israeli marble marked not only the end of Gilboa's sterility, but also the beginning of a new economic security for the aged stronger than that required by American building city of Nazareth. For the marble quarries of Nazareth are now supporting hundreds of local Christians.

TEHACHAPI EARTHQUAKES

(From Page 23)

lateral forces came through with no structural damage but some minor interior partition cracks occurred. Similarly, the Prudential Building, the General Petroleum Building, and the Tishman Building, all designed for lateral forces, came through with only minor plaster cracks or broken light fixtures.

I believe there are several lessons to be learned:

(1) Supervision and inspection of construction during construction operations are essential. Some failures in the Bakersfield area may be attributed directly to plans not being followed.

(2) Structural separation of buildings is important. The effect of one building pounding against an adjacent structure was plainly evident in Bakersfield.

(3) Damage in some (hollow) concrete block construction indicates that horizontal reinforcing steel should not all be concentrated at top and bottom as permitted by some Codes.

(4) There is a need for studying the possibility of isolating non-bearing plastered partitions. Partitions not directly enclosed by the structural frame showed less plaster damage.

KARL V. STEINBRUGGE

Digest of a talk by Karl V. Steinbrugge, Structural Engineer, Earthquake Section, the Pacific Fire Rating Bureau, San Francisco offices.

The "Tehachapi" earthquake was widely heralded in the newspapers as a shock to be ranked with the greatest. From the Structural Engineer's viewpoint this was not so. While the shock was felt over a wide area (in San Francisco at least ten pressure tanks on tall buildings sent in alarms), in the Bakersfield, Arvin, Tehachapi area it was not notable from the standpoint of intensity or duration. According to numerous Structural Engineers who had viewed damage from other shocks, the observed damage in this shock was not at all excessive.

Well designed and well constructed buildings came through in excellent manner. This, of course, was a clear indication that generally speaking the present methods of seismic design are well founded.

Numerous details, however, must bear more study. Rod bracing systems must be tight at all times—thus at the time of design the engineer should weigh the possibility of gradual slacking of rods due to movements in the wood roof etc. The details of rod (or angle) bracing are important—failures were noted at their connections in many instances. Attention to details on the part of the Engineer would have eliminated all of this type of failure.

Roof and floor diaphragm of steel, wood or concrete generally performed well. One steel diaphragm failed along a wall due to the lack of adequate ties. The performance of wood diaphragms was excellent, although there was evidence of some diaphragms in the epicentral region going through large lateral deflections.

Several instances were noted where the design on the drawings was excellent but the actual field construction bore little resemblance to the drawings In these cases the building usually showed signs of distress. The need of **competent** supervision by the Engineer, Architect and Building Department cannot be overemphasized.

Concrete block performed from very good to very bad—again workmanship generally was the

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deciding factor in the observed damage. The use of reinforced concrete bond beams notably held weakened structures together.

Perhaps the most outstanding indication of the value of good design and construction was the public schools. Unit masonry building constructed prior to the Field Bill generally suffered heavily, while those built since the Field Bill suffered negligible or no damage.

Strong evidence exists that vertical earthquake components acted on structures and this should be further investigated. Also the observed damage to well built structures on firm ground as compared with those on poor ground again raises the question if our present codes are correct—for damage to well designed structures on poor ground was generally greater than to similar structures on good ground.

PORTLAND CEMENT ASSOCIATION OPENS NEW MONTANA OFFICES

The Portland Cement Association has announced opening of new district offices in Helena, Montana, with Jack Y. Barnes as district engineer in charge.

JACK Y. BARNES
Engineer

The new office is located in the Gold Block and will carry on the Associations educational work, technical services and local promotion activities throughout the state of Montana.

This is the twenty-seventh district to be established by the Association in principal cities throughout the United States and Canada. It will provide Montana cement users, large and small, with service and information not previously available to them, including the Associations storehouse of educational literature and technical information, covering every field of cement use and made possible by the voluntary financial support of member companies.

Barnes, joined the Association in 1937 as office engineer with the Des Moines, Iowa, office and in 1940 was appointed field engineer for northwest Iowa with headquarters in Mason City.

SOUTHWEST RESEARCH INSTITUTE

Groundbreaking ceremonies took place on December 12th, for construction of the New Physics Building for the Southwest Research Institute, San Antonio, Texas. Site of the new building is on the Essar Ranch.

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BOOK REVIEWS
PAMPHLETS AND CATALOGUES

WINDOWLESS STRUCTURES—A Study in Blast-Resistant Design. Prepared by Federal Civil Defense Adm., Washington 25, D. C. Price $1.00.

A 164 page manual issued by FCDA, representing a collaboration of outstanding engineers and architects and demonstrates the first detailed methods whereby the dynamic forces of an atomic blast can be applied in designing a building.

It is a study in blast-resistant design and dynamics of structures. The behavior of windowless structure of reinforced concrete is analyzed mathematically. The purpose of the authors is to establish design procedures which can be used in the average design office.

The study as a whole has the cooperation of the American Society of Civil Engineers and The American Institute of Architects, together with representatives of the National Society of Professional Engineers, and of government authorities concerned with atomic effects.

LEGAL GUIDE—For Contractors, Architects and Engineers. By I. Vernon Werbin. Publisher McGraw-Hill Book Co., Inc., 330 W. 42nd St., New York 36. Price $4.75.

Another handy guide to legal problems that contractors, architects, and engineers often face by Mr. Werbin who is a member of the New York Bar and a licensed Professional Engineer.

The book describes 83 situations of the sort that frequently lead to litigation, and tells how the courts viewed each case. It is written to be easily understood and one which every contractor, architect, and engineer should have.

NEW BRICK HOMES PLANS. Publisher, Structural Clay Products Institute, Washington 6, D. C. Price $.50.

A new booklet containing complete plans and specifications for all homes shown; illustrates modern and traditional fire places; describes how to build an outdoor barbecue grill; and shows details for modern insulated walls.

Contains a large number of illustrations, plans and designs, as well as complete material on 45-home designs.

BUSINESS ACTION FOR BETTER CITIES. Chamber of Commerce of the United States, Washington 6, D. C. Price $1.00.

It is the record of a two-day national Businessmen's Conference on Urban Problems held in Portland, Oregon, recently; contains four panel discussions and two major addresses; and shows how business and civic leaders throughout the nation are attacking community problems arising from rapid growth, traffic congestion, inadequate parking facilities, and urban blight.

NEW CATALOGUES AVAILABLE

Any of the catalogues or folders described here may be obtained by forwarding your request as indicated in the coupon below to the office of the ARCHITECT & ENGINEER. *Merely mark the items you want and clip or paste the coupon to your letterhead.*

430. ARMORPLY BUILDING PANELS. A new booklet describing "Armorply Building Panels" for curtain wall construction has just been published by United States Plywood Corporation. The new booklet, published specially for architects, contains suggested design details and specifications for the unusual building panels, which were developed under the sponsorship of certain government agencies during the years following World War II. Because of Armorply building panel's unusual properties of maintenance-free interiors and exteriors, quick erection and lowered costs for foundations and framework, nationwide attention was recently focused on their use in the construction fo the Detroit Technical Center of a leading automobile manufacturer. A.I.A. 17-A, 12 pages illus., 6/52.

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431. NEW PERLITE FIREPROOFING DATA AVAILABLE. "Fireproofing with Perlite," an illustrated pamphlet summarizing basic details of 32 approved fire retardant constructions using lightweight plaster or concrete made with perlite aggregate is now available without cost from any of the 47 member companies of the Perlite Institute. The new two-color pamphlet gives construction details for thin, lightweight, easily-applied fire protection for columns, floors, ceilings and partitions. Diagrams show the required thickness of perlite plaster or concrete, fur-

ring details and other basic elements to obtain the listed fire rating. Technical data is compactly arranged for quick reference by architects, contractors, engineers, building officials and others interested in fireproofing methods that reduce dead load, occupy minimum floor space and speed up construction. 8 pages illus., 12/5/52.

432. BRIGGS BEAUTYWARE LINE. A new specially designed Briggs Beautyware condensed catalog will be distributed by Briggs Manufacturing Company, Plumbing Ware Division. The catalog contains details, specifications and illustrations of the entire Briggs Beautyware line, including porcelain enameled steel bathtubs, lavatories and sinks, vitreous china lavatories, closet combinations, urinals and bidets, as well as brass fittings. Included in the catalog is a special two-page insert containing exact color matched enamel deposits of the famous four Briggs Beautyware decorator pastel colors of plumbing fixtures, Sky Blue, Sea Green, Sandstone and Ivory, along with a color harmony chart scientifically prepared to enable anyone to easily achieve color harmony in bathroom decoration. 28 pages illus., 12/52.

433. VINYL-CORK TILE. A completely revised catalog on Dodge Vinyl-Cork Floor Tile has been published by Dodge Cork Company, Inc. The revised catalog describes in detail the features of the tile and shows in a color chart the 16 patterns in which the tile is made. In addition, a comparison table gives the results of numerous tests made by an independent testing laboratory on Dodge Vinyl-Cork Tile and other hard surface floor coverings. Design data, installation specifications and directions for the care and maintenance of Dodge Tile complete the information available in this catalog. Cat. #53, 8 pages illus., 12/52.

434. CORRUGATED ASBESTOS-CEMENT ROOFING AND SIDING. The Philip Carey Mfg. Company has just completed a Manual giving complete data and specifications for Careystone Corrugated Asbestos-Cement roofing and siding. Included in this Manual are numerous drawings and photographs showing exact method of application and erection. Application recommendations, shipping and crating information, suggested specifications and suggestions to users as well as information for estimating quantities are incorporated. 82 pages, illus., 10/52.

435. VITRIFIED CLAY WALL COPINGS. The Stillwater Clay Products Company has available specification catalog sheets for wall coping, including Stillwater's patented Inter-Lok wall coping; chimney tops and pots, standard and modular flue linings and fittings, and for Vitrified Clay Pipe, both standard and extra-srtength. These descriptive sheets, complete with illustrations are available without charge. 12/52.

436. GLASS FIBER ACOUSTICAL INSULATIONS. A new folder titled, "A Complete Line of Glass Fiber Acoustical Insulations" and including all relevant details on Ultralite, Ultrafine and Ultracoustic, has just been issued by the Gustin-Bacon Mfg. Co. of Kansas City, Mo., manufacturers of the three products. The folder describes the physical properties of each of the three products, sound absorption, thermal conductivity, etc., then points out the qualities the three have in common, including their principal uses, their ease of application, and the choice of facings available with each. Sizes and dimensions for each are given on the concluding page. 4 pages illus., 10/52.

437. BASEBOARD RADIANT AND CONVECTED HEAT DISTRIBUTION. Two types of National Art Baseboard, which is both a replacement for customary wooden baseboard and an efficient residential heating medium, are described and illustrated in the catalog that is now available from The National Radiator Co. Type BF is shown as the most conventional type for installation against plaster after a house has been built. It extends 2¼ in. into the room from the plaster wall. Type BR is for semi-recessed installation. It is generally installed during building construction. Having approved I-B-R ratings, 8 ft. lengths of National Art Baseboard are said to be generally installed in forced hot water heating systems, but minimum lengths can be used with steam. The catalog gives roughing-in dimensions, pictures of baseboard installations, illustrations of trim items such as splicer plates and inside and outside corners, plus complete rating data. A.I.A. 30-3-4, illus., 11/52.

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MARBLE INDUSTRY

(From Page 19)

Warren and Wetmore, the architects who completed the Terminal, to specify marble for the building, is applauded.

"Perhaps you may not know," writes Mr. Ponce, "that this Terminal which was opened to traffic on February 2, 1913, gives service to approximately 220,000,000 people every year. The degree of wear and tear on the building and the difficulty of maintaining neatness and cleanliness, day after day, can easily be imagined. Few buildings in the world support such unremitting traffic, and I think we can say that few buildings are maintained to higher standards. Marble is largely the answer.

"This impression is not mine alone. Each of us here interested in the job of maintaining the Terminal is thankful for every square foot of marble in it. Because it is today still beautiful and fresh, clean, and good to look at. And I don't doubt it will remain so for many years to come."

Pierre Bultinck, general manager of the St. Regis Hotel in New York writes, "Marble is heralded by the maintenance staff as a true Godsend . . . the beautiful marble walls from floor to ceiling on all typical floors in the original portion of the building, built in 1903, still present an air of dignity and refinement that is appreciated by everyone.

"In the new portion of the hotel, built in 1927, the wall surface in the corridors is of plaster and painted, above a six inch marble base. In addition to the constant attention that these plaster surfaces require, they have to be painted on an average of once every year. It is reasonable to assume that, over this period of years, the extra cost of marble has paid for itself in maintenance economies alone."

Many other instances and histories of the use of marble in commercial buildiings were cited and it was also pointed out that in addition to showing building profits through maintenance economies, the use of marble wainscoting in a building adds an air of prestige which attracts better tenants, a hidden profit which is almost self evident.

NATIONAL ASSOCIATION OF HOME BUILDERS CHICAGO

A dramatic demonstration of housing progress at work is in store for the nation's home builders when they convene in annual Convention in Chicago on January 18-22.

With emphasis on the latest technical developments in home building, a corps of business, industrial and housing research experts will cover in detail virtually every subject of current interest to builders. Concurrently, leading manufacturers will treat the industry-wide gathering to the largest

(See Page 41)

ESTIMATOR'S GUIDE

BUILDING AND CONSTRUCTION MATERIALS

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Asphalt roofing, 15-lbs.	2.70
Asphalt roofing, 30-lbs.	3.70

Roofing Papers—

Standard Grade, 108-ft. roll, Light	$2.50
Smooth Surface, Medium	2.90
Heavy	3.40
M. S. Extra Heavy	3.95

BUILDING HARDWARE—

Sash cord com. No. 7	$2.65 per 100 ft.
Sash cord com. No. 8	3.80 per 100 ft.
Sash cord spot No. 7	3.65 per 100 ft.
Sash cord spot No. 8	3.35 per 100 ft.
Sash weights, cast iron, $100.00 ton.	
1-Ton lots, per 100 lbs.	$3.75
Less than 1-ton lots, per 100 lbs.	$4.75
Nails, per keg, base	$12.55
8-in. spikes	12.45
Rim Knob lock sets	1.80
Butts, dull brass plated on steel, 3½x3½	.76

CONCRETE AGGREGATES—

The following prices net to Contractors unless otherwise shown. Carload lots only.

	Bunker per ton	Del'd per ton
Gravel, all sizes	$2.44	$2.90
Top Sand	2.38	3.13
Concrete Mix	2.38	3.06
Crushed Rock, ¼" to ¾"	2.38	2.90
Crushed Rock, ¾" to 1½"	2.38	2.90
Roofing Gravel	2.81	2.90
River Sand	2.50	3.00
Sand—		
Lapis (Nos. 2 & 4)	3.56	3.94
Olympia (Nos. 1 & 2)	3.56	3.88

Cement—
Common (all brands, paper sacks), Per Sack, small quantity (paper) $1.05
Carload lots, in bulk per bbl. 3.55
Cash discount on carload lots, 10c a bbl., 10th Prox., less than carload lots $4.00 per bbl. f.o.b. warehouse or delivered.
Cash discount 2% on L.C.L.

Trinity White, Medusa White: 1 to 100 sacks, $3.50 sack warehouse or del.; $9.5e bbl. carload lots.

CONCRETE READY-MIX—

Delivered in 4-yd. loads:

Per cubic yard, 1-8 Mix	$ 9.80
1-7 Mix	10.15
1-6 Mix	10.70
1-5 Mix	11.40
Curing Compound, clear, drums, per gal.	1.03

CONCRETE BLOCKS—

	Haydite	Basalt
4x8x16-inches, each	$ .19	$ .19
6x8x16-inches, each	.23	.235
8x8x16-inches, each	.27	.27
12x8x16-inches, each	.38	.40
12x8x24-inches, each	—	.60

Haydite Aggregates—

¾-inch to ⅜-inch, per cu. yd.	$7.75
⅜-inch to ⅛-inch, per cu. yd.	7.75
No. 6 to 0-inch, per cu. yd.	7.75

DAMPPROOFING and Waterproofing—

Two-coat work, $9.00 per square.
Membrana waterproofing—4 layers of saturated felt, $10.00 per square.
Hot coating work, $5.00 per square.
Medusa Waterproofing, $3.50 per lb. San Francisco Warehouse.
Tricosal concrete waterproofing. 60c a cubic yd. and up.

ELECTRIC WIRING—$15 to $20 per outlet for conduit work (including switches).

Knob and tube average $6.00 per outlet

ELEVATORS—

Prices vary according to capacity, speed and type. Consult elevator companies. Average cost of installing a slow speed automatic passenger elevator in small four story apartment building, including entrance doors, about $9,500.00.

EXCAVATION—

Sand, $1.00; clay or shale, $1.50 per yard.
Trucks, $30 to $45 per day.
Above figures are an average without water. Steam shovel work in large quantities, less; hard material, such as rock will run considerably more.

FIRE ESCAPES—

Ten-foot galvanized iron balcony, with stairs, $250 installed on new buildings; $300 on old buildings.

FLOORS—

Asphalt Tile, 1/8 in. guage 18c to 35c per sq. ft.
Composition Floors, such as Magnesite 40c-$1.25 per sq. ft.
Linoleum, standard guage, sq. yd. $2.75
Mastipave—$1.50 per sq. yd.
Battleship Linoleum—1/8"—$3.00 sq. yd.
Terazzo Floors—$2.00 per sq. ft.
Terazzo Steps—$2.50 per lin. ft
Mastic Wear Coat—according to type—20c to 35c.

Hardwood Flooring—

Oak Flooring—T & G—Unfin.—

	2½x2¼	½x2	⅜x2	⅝x2
Clear Otd., White	$425	$405	$	$
Clear Otd., Red	405	380	$	$
Select Otd., Red or White	355	340		
Clear Pln., Red or White	355	340	335	315
Select Pln., Red or White	340	330	325	300
#1 Common, Red or White	315	310	305	280
#2 Common, Red or White	305			

Prefinished Oak Flooring—

	Prime	Standard
½ x 2	$369.00	$359.00
½ x 2½	380.00	370.00
⅝ x 2¼	390.00	381.00
⅝ x 2¾	375.00	355.00
⅝ x 3¼	395.00	375.00
⅝ x 2¼ & 3¼ Ranch Plank		415.00

Unfinished Maple Flooring—

⅝ x 2¼ First Grade	$390.00
⅝ x 2¼ 2nd Grade	365.00
⅝ x 2¼ 2nd & Btr. Grade	375.00
⅝ x 2¼ 3rd Grade	240.00
⅝ x 3¼ 3rd & Btr. Jtd. EM	380.00
⅝ x 3½ 2nd & Btr. Jtd. EM	390.00
33/32 x 2¼ First Grade	400.00
33/32 x 2¼ 2nd Grade	360.00
33/32 x 2¼ 3rd Grade	320.00

Floor Layer Wage $2.60 hr.

GLASS—

Single Strength Window Glass	$ .30 per □ ft.
Double Strength Window Glass	.45 per □ ft.
Plate Glass, ¼ polished to 75	1.60 per □ ft.
75 to 100	1.74 per □ ft.
¼ in. Polished Wire Plate Glass	2.50 per □ ft.
¼ in. Rgh. Wire Glass	.80 per □ ft.
1/8 in. Obscure Glass	.44 per □ ft.
7/32 in. Obscure Glass	.63 per □ ft.
1/8 in. Heat Absorbing Obscure	.54 per □ ft.
7/32 in. Heat Absorbing White	.72 per □ ft.
1/8 in. Ribbed	.44 per □ ft.
7/32 in. Ribbed	.63 per □ ft.
1/8 in. Rough	.44 per □ ft.
7/32 in. Rough	.63 per □ ft.
Glazing of above additional $.15 to	.30 per □ ft.
Glass Blocks, set in place	3.50 per □ ft.

HEATING—

Furnaces — Gas Fired

Floor Furnace, 25,000 BTU	$ 70.50
35,000 BTU	77.00
45,000 BTU.	90.50
Automatic Control, Add	39.00
Dual Wall Furnaces, 25,000 BTU	91.50
35,000 BTU	99.00
45,000 BTU	117.00
With Automatic Control, Add	39.00
Unit Heaters, 50,000 BTU	202.00
Gravity Furnace, 65,000 BTU	198.00
Forced Air Furnace, 75,000 BTU	313.50

Water Heaters — 5-year guarantee

With Thermostat Control,	
20 gal. capacity	87.50
30 gal. capacity	103.95
40 gal. capacity	120.00

INSULATION AND WALLBOARD—

Rockwool Insulation—
(2") Less than 1,000 □ ft. $64.00
(2") Over 1,000 □ ft. 59.00
Cotton Insulation—Full-thickness (3½") ..... $95.50 per M sq. ft.
Sisseleton Aluminum Insulation—Aluminum coated on both sides ..... $23.50 per M sq. ft.
Tileboard—4'x6' panel ..... $9.00 per panel
Wallboard—½" thickness ..... $55.00 per M sq. ft.
Finished Plank ..... $69.00 per M sq. ft.
Ceiling Tileboard ..... $69.00 per M sq. ft.

IRON—Cost of ornamental iron, cast iron, etc., dapands on designs.

LUMBER—

S4S No. 2 and better common O.P. or D.F., per M. f.b.m. $100.00
Rough, No. 2 common O.P. or D.F., per M. f.b.m. 95.00

Flooring—

	Per M Delvd.
V.G.-D.F. B & Btr. 1 x 4 T & G Flooring	$225.00
"C" and better—all	225.00
"D" and better—all	225.00
Rwd. Rustic—"A" grade, medium dry, 8 to 24 ft.	185.00

Plywood, per M sq. ft.
¼-inch, 4.0x8.0-5IS $135.00
½-inch, 4.0x8.0-5IS 219.00
¾-inch, per M sq. ft. 292.00
Plyscord ..... 11½c per ft.
Plyform ..... 25c per ft.

Shingles (Rwd. not available)—
Red Cedar No. 1—$9.50 per square; No. 2, $7.00; No. 3, $5.00.
Average cost to lay shingles, $6.00 per square.
Cedar Shakes—½" to ¾" x 24/26 in handsplit tapered or split resewn, per square $15.25
¾" to 1¼" x 24/26 in split resewn, per square 17.00
Average cost to lay shekes,— 8.00 per square

Pressure Treated Lumber—
Wolmenized ..... Add $35 per M to above
Creosoted, 8-lb. treatment ..... Add $45 per M to above

MARBLE—(See Dealers)

METAL LATH EXPANDED—

Standard Diamond, 3.40, Copper Bearing, LCL, per 100 sq. yds $43.50
Standard Ribbed, ditto $47.50

MILLWORK—Standard.

D. F. $150 per 1000. R. W. Rustic $175 par 1000 (delivered).
Double hung box window frames, average with trim, $12.50 and up, each.
Complete door unit, $15 to $25.
Screen doors, $8.00 to $12.00 each.
Patent screen windows, $1.25 a sq. ft.
Cases for kitchen pantries seven ft. high, par lineal ft., upper $9.00 to $11.00; lower $12.00 to $13.00.
Dining room cases, $20.00 par lineal foot. Rough and finish about $1.00 per sq. ft.
Labor—Rough carpentry, warehouse heavy framing (avarage), $75.00 per M.
For smaller work average, $85.00 to $100. par 1000.

PAINTING—

Two-coat work ..... par yard 85c
Three-coat work ..... per yard $1.10
Cold water painting ..... par yard 25c
Whitewashing ..... per yard 15c

Linseed Oil, Strictly Pure (Basis 7¾ lbs. per gal.)	Wholesale Raw	Wholesale Boiled
Light iron drums ..... per gal.	$2.28	$2.34
5-gallon cans ..... per gal.	2.40	2.46
1-gallon cans ..... each	2.52	2.58
Quart cans ..... each	.71	.72
Pint cans ..... each	.38	.39
½-pint cans ..... each	.24	.24

Turpentine (Basis, 7.2 lbs. per gal.)	Pure Gum Spirits
Light iron drums ..... per gal.	$1.65
5-gallon cans ..... per gal.	1.76
1-gallon cans ..... each	1.88
Quart cans ..... each	.54
Pint cans ..... each	.31
½-pint cans ..... each	.20

Pioneer White Lead in Oil Heavy Paste and All - Purpose (Soft - Paste)

Net Weight Packages	List Price Pr. per 100 lbs.	List Price Pr. per pkgs.	Price to Peintars Per 100 lbs.	Price to Peintars Pr. per pkg.
100-lb. kegs	$28.35	$29.35	$27.50	$27.50
50-lb. kegs	30.05	15.03	28.15	14.08
25-lb. kegs	30.35	7.59	28.45	7.12
5-lb. cans*	33.35	1.34	31.25	1.25
1-lb. cans*	36.00	.36	33.75	.34

500 lbs. (one delivery) ¾c per pound less then above.
*Heavy Paste only.

Pioneer Dry White Lead—Litharge—Dry Red Lead —Red Lead in Oil

Price to Painters—Price Per Pounds	100 lbs.	50 lbs.	25 lbs.
Dry White Lead	$26.30	$	$
Litharge	25.95	26.60	26.90
Dry Red Lead	27.20	27.85	28.15
Red Lead in Oil	30.65	31.30	31.60

Pound cans, $.37 per lb.

PATENT CHIMNEYS—

6-inch ..... $2.50 lineal foot
8-inch ..... 3.00 lineal foot
10-inch ..... 4.00 lineal foot
12-inch ..... 5.00 lineal foot

PLASTER—

Neat wall, per ton delivered in S. F. in paper bags, $17.60.

PLASTERING (Interior)—

	Yard
3 Coats, metal lath and plaster	$3.00
Keene cement on metel lath	3.50
Ceilings with ¾ hot roll channels metel lath (lethed only)	3.00
Seilings with ¾ hot roll channels metel lath plastered	4.50
Single partition ¾ channel lath 1 side (leth only	3.00
Single partition ¾ channel lath 2 inches thick plastered	8.00
4-inch double partition ¾ channel lath 2 sides (leth only)	5.75
4-inch double partition ¾ channel lath 2 sides plestered	8.75
Thermax single partition; 1" channels; 2¼" overall partition width. Plastered both sides	7.50
Thermax double pertition; 1" channels; 4¼" overall partition width. Plestered both sides	11.00
3 Coats over 1" Thermax nailed to one side wood studs or joists	4.50
3 Coats over 1" Thermax suspended to one side wood studs with spring sound isolation clip	5.00

Note—Channel lath controlled by limitation orders.

PLASTERING (Exterior)—

	Yard
2 coats cement finish, brick or concrete wall	$2.50
3 coats cement finish, No. 18 gauge wire mesh	3.50

Lime—$4.00 per bbl. at yard.
Processed Lime—$4.15 per bbl. at yard.
Rock or Grip Lath—⅜"—30c per sq. yd.
½"—29c per sq. yd.
Composition Stucco—$4.00 sq. yard (applied).

PLUMBING—

From $200.00 per fixture up, according to grade, quality and runs.

ROOFING—

"Standard" tar and gravel, 4 ply ..... $13.00 per sq. for 30 sqs. or over.
Less than 30 sqs. $16.00 per sq.
Tile $40.00 to $50.00 per square.
No. 1 Redwood Shingles in place, 4½ in. exposure, per square $18.25
5/2 No. 1 Cedar Shingles, 5 in. exposure, per square 14.50
5/8 x 16"—No. 1 Little Giant Cedar Shingles, 5" exposure, par square .. 18.25
4/2 No. 1-24" Royal Cedar Shingles 7½" exposure, par square 23.00
Re-coat with Gravel $5.50 per sq.
Asbestos Shingles, $27 to $35 per sq. laid.
½ to ¾ x 25" Resawn Cedar Shakes.
10" Exposure $30.00
¾ to 1¼ x 25" Resawn Cedar Shakes.
10" Exposure $35.00
1 x 25" Resawn Cedar Shakes.
10" Exposura 22.00
Above prices ara for shakes in place.

SEWER PIPE—

C.I. 6-in. to 24-in. B. & S. Class B and heavier, par ton $99.50
Vitrified, per foot: L.C.L. F.O.B. Warehouse, San Francisco.
Standard, 8-in. ..... $ .66
Standard, 12-in. 1.30
Standard, 24-in. 5.41
Clay Drain Pipe, per 1,000 L.F.
L.C.L., F.O.B. Warehouse, San Francisco:
Standard, 6-in. per M $240.00
Standard, 8-in. per M 400.00

SHEET METAL—

Windows—Metal, $2.50 a sq. ft.
Fire doors (average), including hardwara $2.80 per sq. ft., size 12'x12'. $3.75 per sq. ft., size 3'x6'.

SKYLIGHTS—(not glazed)

Galvanized iron, per sq. ft. $1.25
Vented hip skylights, per sq. ft. 2.25
Aluminum, puttyless, (unglazed), per sq. ft. 1.25
(installed and glazed), per sq. ft. .. 1.85

STEEL—STRUCTURAL—

$290 per ton erected, when out of mill.
$350 per ton erected, when out of stock.

STEEL REINFORCING—

$200.00 per ton, in place.
¼-in. Rd. (Less than 1 ton) per 100 lbs. $8.90
⅜-in. Rd. (Less than 1 ton) per 100 lbs. 7.80
½-in. Rd. (Less than 1 ton) per 100 lbs. 7.50
⅝-in. Rd. (Less than 1 ton) per 100 lbs. 7.25
¾-in. & ⅞-in. Rd. (Less than 1 ton) 7.15
1-in. & up (Less than 1 ton) 7.10
1 ton to 5 tons, deduct 25c.

STORE FRONTS—

Individual estimates recommended. See ESTIMATORS DIRECTORY for Architectural Veneer (3), and Mosiac Tile (35).

TILE—

Ceramic Tile Floors—Commercial $1.20 to $1.60 per sq. ft.
Cove Base—$1.40 per lin. ft.
Quarry Tile Floors, 6x6" with 6" base @ $1.35 per sq. ft.
Tile Wainscots & Floors, Residential, 4¼x4¼", @ $1.65 to $2.00 per sq. ft.
Tile Wainscots, Commercial Jobs, 4¼x4¼" Tile, @ $1.50 to $1.65 per sq. ft.
Asphalt Tile Floor ⅛" ⅝"..... $ .18 - $ .35 sq. yd.
Light shades slightly higher.
Cork Tile—$ .70 per sq. ft.
Mosaic Floors—See dealers.
Linoleum tile, per □ ft. ..... $ .65
Rubber tile, per □ ft. ..... $ .55 to $ .75

Furring Tile

Scored	F.O.B. S. F.
12 x 12, Each	$ .17

Kraftile: Per square foot

	Small Lots	Large Lots
Patio Tile—Niles Red	$ .40	$ .36
6 x 12 x 2/5 inch, plain	.44	.39
6 x 6 x ⅞ inch, plain	.46	.42

Building Tile—
8x5½x12-inches, per M $139.50
6x5½x12-inches, per M 105.00
4x5½x12-inches, per M 84.00

Hollow Tile—
12x12x2-inches, per M $146.75
12x12x3-inches, per M 156.85
12x12x4-inches, per M 177.10
12x12x6-inches, per M 235.30
F.O.B. Plent

VENETIAN BLINDS—

75c per square foot and up. Installation extra.

WINDOWS—STEEL—INDUSTRIAL

Cost depends on design and quality required.

ARCHITECT AND ENGINEER
ESTIMATOR'S DIRECTORY
Building and Construction Materials

EXPLANATION—Building and construction materials are shown in major classified groups for general identification purposes with names and addresses of suppliers of materials listed in detail under group classification where name first appears—main offices are shown first with branch or district offices following. The numeral appearing in listings *(3) refers to the major group classification where complete data on the dealer, or representative, may be found.

ADHESIVES (1)

Wall and Floor Tile Adhesives
THE CAMBRIDGE TILE MFG. CO. *(35)

AIR CONDITIONING (2)

Air Conditioning & Cooling
UTILITY APPLIANCE CORP.
Los Angeles 58: 4851 S. Alameda St.
San Francisco: 1355 Market St., UN 1-4908

ARCHITECTURAL VENEER (3)

Ceramic Veneer
GLADDING, McBEAN & CO.
San Francisco: Harrison at 9th St., UN 1-7400
Los Angeles: 2901 Los Feliz Blvd., OL 2121
Portland: 110 S.E. Main St., EA 6179
Seattle: 1500 First Ave. S., EL 4711
Spokane: 1102 N. Monroe St., BR 3259
THE CAMBRIDGE TILE MFG. CO. *(35)
Porcelain Veneer
PORCELAIN ENAMEL PUBLICITY BUREAU
Oakland 12: Room 601 Franklin Building
Pasadena 8: P. O. Box 186. East Pasadena Station
Granite Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834
Marble Veneer
VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles: 3522 Council St., DU 2-7834

BANKS - FINANCING (4)

CROCKER FIRST NATIONAL BANK OF S. F.
San Francisco, Post & Montgomery Sts., EX 2-7700

BATHROOM FIXTURES (5)

Metal
THE CAMBRIDGE TILE MFG. CO. *(35)
Ceramic
THE CAMBRIDGE TILE MFG. CO. *(35)

BRASS PRODUCTS (6)

GREENBERG'S, M. & SONS
San Francisco 7: 765 Folsom, EX 2-3143
Los Angeles 23: 1258 S. Boyle, AN 3-7108
Seattle 4: 1016 First Ave. So., MA 5140
Phoenix: 3009 N. 19th Ave., Apt. 92, PH 2-7663
Portland 4: 510 Builders Exch. Bldg., AT 6443

BRICKWORK (7)

Face Brick
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
REMILLARD-DANDINI CO.
San Francisco 4: 400 Montgomery St., EX 2-4988

BRONZE PRODUCTS (8)

GREENBERG'S, M. & SONS *(6)

BUILDING PAPERS & FELTS (9)

ANGIER PACIFIC CORP.
San Francisco 5: 55 New Montgomery St., DO 2-4416
Los Angeles: 7424 Sunset Blvd.
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY
San Francisco 5: 55 New Montgomery St., EX 2-3066
Chicago, Ill.: 205 West Wacker Drive

BUILDING HARDWARE (9a)

THE STANLEY WORKS
San Francisco: Monadnock Bldg., YU 6-5914
New Britain, Conn.

CEMENT (10)

PACIFIC PORTLAND CEMENT
San Francisco 4: 417 Montgomery St., GA 1-4100
PACIFIC COAST AGGREGATES, INC. *(11)

CONCRETE AGGREGATES (11)

Ready Mixed Concrete
PACIFIC COAST AGGREGATES, INC.
San Francisco: 400 Alabama St., KL 2-1616
Sacramento: 16th and A Sts., GI 3-6586
San Jose: 790 Stockton Ave., CY 2-5620
Oakland: 2400 Peralta St., GL 1-0177
Stockton: 820 So. California St., ST 8-8643
Lightweight Aggregates
AMERICAN PERLITE CORP.
Richmond: 26th & B. St. - Yd. 2, RI 4307

DOORS (12)

Hollywood Doors
WEST COAST SCREEN CO.
Los Angeles: 1127 E. 63rd St., AD 1-1108
W. P. FULLER CO.
Seattle, Tacoma, Portland
NICOLAI DOOR SALES CO.
San Francisco: 3045 19th St.
F. M. COBB CO.
Los Angeles & San Diego
SOUTHWESTERN SASH & DOOR
Phoenix, Tuscon, Arizona
El Paso, Texas
HOUSTON SASH & DOOR
Houston, Texas
Screen Doors
WEST COAST SCREEN DOOR CO.
(See above)

FIRE ESCAPES (13)

MICHEL & PFEFFER IRON WORKS, INC.
South Linden & Tanforan Ave.
South San Francisco: JU 4-8362

FIREPLACES (14)

Heat Circulating
SUPERIOR FIREPLACE CO.
Los Angeles: 1708 E. 15th St., PR 8393
Baltimore, Md.: 601 No. Point Rd.

FLOORS (15)

Hardwood Flooring
HOGAN LUMBER COMPANY
Oakland: Second and Alice Sts., GL 1-6861
Floor Tile
GLADDING, McBEAN & CO. *(3)
KRAFTILE *(35)
Floor Tile (Ceramic Mosaic)
THE CAMBRIDGE TILE MFG. CO. *(35)
Floor Treatment & Maintenance
HILLYARD SALES CO. (Western)
San Francisco: 470 Alabama St., MA 1-7766
Los Angeles: 923 E. 3rd, TR 8282
Seattle: 3440 E. Marginal Way
Diversified (Magnesite, Asphalt Tile, Composition, Etc.)
LE ROY OLSON CO.
San Francisco 10: 3070 - 17th St., HE 1-0188
Sleepers (Composition)
LE ROY OLSON CO.

GLASS (16)

W. P. FULLER COMPANY
San Francisco: 301 Mission St., EX 2-7151
Los Angeles, Calif.
Portland, Ore.

HEATING (17)

S. T. JOHNSON CO.
Oakland 8: 940 Arlington Ave., OL 2-6000
San Francisco: 585 Potrero Ave., MA 1-2757
Philadelphia 8, Pa.: 401 N. Broad St.

SCOTT COMPANY
San Francisco: 243 Minna St., YU 2-0400
Oakland: 113 - 10th St., GL 1-1937
San Jose, Calif.
Los Angeles, Calif.

UTILITY APPLIANCE CORP. *(2)

Electric Heaters

WESIX ELECTRIC HEATER CO.
San Francisco 5: 390 First St., GA 1-2211
Los Angeles: 520 W. 7th St., MI 8096
Portland: Terminal Sales Bldg., BE 2050
Seattle: Securities Bldg., SE 5028

Designer of Heating
THOMAS B. HUNTER
San Francisco 4: 41 Sutter St., GA 1-1164

INSULATION AND WALL BOARD (18)

LUMBER MANUFACTURING CO.
San Francisco: 225 Industrial Ave., JU 7-1760
PACIFIC COAST AGGREGATES, INC. *(11)
SISALKRAFT COMPANY *(9)

WESTERN ASBESTOS COMPANY
San Francisco: 675 Townsend St., KL 2-3868
Oakland: 251 Fifth Avenue, GL 1-2345
Stockton: 733 S. Van Buren, ST 4-9421
Sacramento 1331 - T St., HU 1-0125
Fresno: 434 - P St., FR 2-1600

IRON—Ornamental (10)

MICHEL & PFEFFER IRON WORKS, INC. *(13)

LANDSCAPING (20)

Landscape Contractors
HENRY C. SOTO CORP.
Los Angeles: 13,000 S. Avalon Blvd., ME 4-6617

LIGHTING FIXTURES (21)

SMOOT-HOLMAN COMPANY
Inglewood, Calif., OR 8-1217
San Francisco: 55 Mississippi St., MA 1-8474

LUMBER (22)

Shingles
LUMBER MANUFACTURING CO. *(18)

MARBLE (23)

VERMONT MARBLE COMPANY
San Francisco 5: 525 Market St., SU 1-6747
Los Angeles 4: 3522 Council St., DU 2-7834

METAL LATH EXPANDED (24)

PACIFIC COAST AGGREGATES, INC. *(11)

MILLWORK (25)

LUMBER MANUFACTURING COMPANY *(18)
MULLEN MANUFACTURING COMPANY
San Francisco: 60-80 Rausch St., UN 1-5815
PACIFIC MANUFACTURING COMPANY
San Francisco: 16 Beale St., GA 1-7755
Santa Clara: 2610 The Alameda, SC 607
Los Angeles, 6820 McKinley Ave., TH 4196

PAINTING (26)

Paint
W. P. FULLER COMPANY *(16)

PLASTER (27)

Interiors - Metal Lath & Trim
PACIFIC COAST AGGREGATES, INC. *(11)

Exteriors
PACIFIC PORTLAND CEMENT COMPANY *(28)

PLASTIC CEMENT (28)

PACIFIC PORTLAND CEMENT COMPANY
San Francisco: 417 Montgomery St., GA 1-4100

PLUMBING (29)

THE MALSEY TAYLOR COMPANY
Redlands, Calif.
Warren, Ohio

THE SCOTT COMPANY *(17)

HAWS DRINKING FAUCET COMPANY
Berkeley 10: 1435 Fourth St., LA 5-3341

CONTINENTAL WATER HEATER COMPANY
Los Angeles 31: 1801 Pasadena Ave., CA 6178

SIMONDS MACHINERY COMPANY
San Francisco: 816 Folsom St., DO 2-6794
Los Angeles: 455 East 4th St., MU 8322

SECURITY VALVE COMPANY
Los Angeles 31: 410 San Fernando Rd., CA 6191

RESILIENT TILE (30)

LE ROY OLSON CO. *(15)

SEWER PIPE (32)

GLADDING, McBEAN & CO. *(3)

SHEET METAL (32)

Windows
DETROIT STEEL PRODUCTS COMPANY
Oakland 8: 1310 - 63rd St., OL 2-8826
San Francisco: Russ Building, DO 2-0890
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGEGATES, INC. *(11)

Fire Doors
DETROIT STEEL PRODUCTS COMPANY

Skylights
DETROIT STEEL PRODUCTS COMPANY

STEEL—STRUCTURAL (33)

COLUMBIA STEEL CO.
San Francisco: Russ Bldg., SU 1-2500
Los Angeles: 2087 E. Slauson, LA 117)
Portland: 2345 N. W. Nicolai, BE 7261
Seattle 1331 3rd Ave. Bldg., MA 1972
Salt Lake City: Walker Bank Bldg., SL 3-6733

HERRICK IRON WORKS
Oakland: 18th & Campbell Sts., GL 1-1767

JUDSON PACIFIC-MURPHY CORP.
Emeryville: 4300 Eastshore Highway, OL 3-1717

REPUBLIC STEEL CORP.
San Francisco: 116 N. Montgomery St., GA 1-0977
Los Angeles: Edison Building
Seattle: White-Henry-Stuart Building
Salt Lake City: Walker Bank Building
Denver: Continental Oil Building

SAN JOSE STEEL COMPANY
San Jose 195 North Thirtieth St., CO 4184

STEEL—REINFORCING (34)

REPUBLIC STEEL CORP. *(33)
HERRICK IRON WORKS *(33)
SAN JOSE STEEL CO. *(33)
COLUMBIA STEEL CO. *(33)

CLAY TILE (35)

THE CAMBRIDGE TILE MFG. CO.
San Francisco 10: 470 Alabama St., UN 3-1666
Los Angeles 19: 1335 S. La Brea, WE 3-7800

GLADDING, McMEAN & CO. *(3)

KRAFTILE
Niles, Calif.: NIles 3611
San Francisco 5: 50 Hawthorne St., DO 2-3780
Los Angeles 13: 406 South Main St., MU 7241

TIMBER—REINFORCING (36)

Trusses
WYERHAEUSER SALES CO.
Tacoma, Wash.
St. Paul, Minn.
Newark, N. J.

Treated Timber
J. H. BAXTER CO.
San Francisco 4: 333 Montgomery St., DO 2-3883
Los Angeles 13: 601 West Fifth St., MI 6294

WALL TILE (37)

THE CAMBRIDGE TILE MFG. CO. *(35)
GLADDING, McBEAN & CO. *(3)
KRAFTILE COMPANY *(35)

WINDOWS STEEL (38)

DETROIT STEEL PRODUCTS CO. *(32)
MICHEL & PFEFFER IRON WORKS, INC. *(13)
PACIFIC COAST AGGREGATES, INC. *(11)

GENERAL CONTRACTORS (39)

BARRETT & HILP
San Francisco: 918 Harrison St., DO 2-0700
Los Angeles: 234 W. 37th Place, AD 3-8161

DINWIDDIE CONSTRUCTION COMPANY
San Francisco: Crocker Building, YU 6-2718

CLINTON CONSTRUCTION COMPANY
San Francisco: 923 Folsom St., SU 1-3440

MATTOCK CONSTRUCTION COMPANY
San Francisco: 604 Mission St., GA 1-5516

PARKER, STEFFENS & PEARCE
San Francisco: 135 So. Park, EX 2-6639

STOLTE, INC.
Oakland: 8451 San Leandro Blvd., TR 2-1064

SWINERTON & WALBERG COMPANY
San Francisco: 225 Bush St., GA 1-2980
Oakland: 1723 Webster St., HI 4-4322
Los Angeles, Sacramento, Denver

P. J. WALKER COMPANY
San Francisco: 391 Sutter St., YU 6-5916
Los Angeles: 714 W. Olympic Blvd., RI 7-5521

TESTING LABORATORIES (ENGINEERS & CHEMISTS (40)

ABBOT A. HANKS, INC.
San Francisco: 624 Sacramento St., GA 1-1697

ROBERT W. HUNT COMPANY
San Francisco: 251 Kearny St., EX 2-4634
Los Angeles: 3050 E. Slauson, JE 9131
Chicago, New York, Pittsburgh

PITTSBURGH TESTING LABORATORY
San Francisco: 651 Howard St., EX 2-1747

BUILDING TRADES WAGE (JOB SITES) NORTHERN, CENTRAL AND SOUTHERN CALIFORNIA

ATTENTION: The following are the PREVAILING hourly rates of compensation being paid and in effect by employers by agreement between employees and their union; or as recognized and determined by the U. S. Department of Labor. (September 1, 1952.)

CRAFT	San Francisco	Alameda	Contra Costa	Fresno	Sacramento	San Joaquin	Santa Clara	Solano	Los Angeles	San Bernardino	San Diego	Santa Barbara	Kern
ASBESTOS WORKERS	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.585	$2.25	$2.25	$2.25	$2.25	$2.25
BOILERMAKERS	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68					
BRICKLAYERS	3.25	3.25	3.25	3.00	3.25	3.00	3.45	3.25	3.00	3.00	2.75	3.00	3.00
BRICKLAYERS, HODCARRIERS	2.45	2.45	2.45	2.00	2.40	2.25	2.45	2.45	1.94	1.94	1.94	1.94	1.94
CARPENTERS	2.60	2.60	*2.39	*2.39	*2.39	*2.39	*2.39	*2.39	2.57	2.57	2.57	2.57	2.43
CEMENT FINISHERS	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	*2.42	2.57	2.57	2.57	2.57	2.57
ELECTRICIANS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.75	2.75	2.75	2.75	2.75	2.75
ELEVATOR CONSTRUCTORS	2.75	2.70	2.65	2.75	2.915	2.915	2.915	2.915	2.25	2.25	2.25	2.25	2.25
ENGINEERS: MATERIAL HOIST	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	1.9875	1.9875	1.9875	1.9875	1.9875
GLAZIERS	2.30	2.30	2.30	2.30	2.25	2.30	2.30	2.30	2.16	2.16	2.16	2.16	2.12
IRONWORKERS: ORNAMENTAL	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.70	2.70	2.70	2.70	2.70
REINF. RODMEN	*2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.38	2.38	2.38	2.38	2.38
STRUCTURAL	*2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
LABORERS: BUILDING	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
CONCRETE	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.94	1.94	1.94	1.94	1.94
LATHERS	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.8125	3.125	3.125	3.125	3.125	3.125
MARBLE SETTERS	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.25	2.25	2.25	2.25	2.25
MOSAIC & TERRAZZO	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.6125	2.40	2.40	2.40	2.40	2.4.
PAINTERS	**2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.38	2.56	2.425	2.22	2.22
PILEDRIVERS	*2.5675	*2.5675	*2.5675	*2.5675	*2.5675	*2.5675	*2.5675	*2.5675	2.66	2.38	2.38	2.38	2.38
PLASTERERS	3.125	3.165	3.125	3.125	3.00	3.00	3.125	3.00	3.125	3.125	3.125	3.125	3.125
PLASTERERS, HODCARRIERS	2.60				2.50	2.50		2.50	2.875	2.25	2.30	2.00	2.00
PLUMBERS	2.90	2.90	2.875	2.75	2.75	2.75	2.75	2.75	2.90	2.90	2.90	2.90	2.90
ROOFERS	2.50	2.50	2.50	2.25	2.50	2.50	2.50	2.50	2.65	2.00	1.90	2.00	2.00
SHEET METAL WORKERS	2.475	2.475	2.3125	2.43	2.50	2.50	2.40	2.415	2.475	2.475	2.175	2.00	2.475
SPRINKLER FITTERS	2.75	2.70	2.70	2.625	2.625	2.625	2.75	2.75	2.25	2.25	2.25	2.25	2.25
STEAMFITTERS	2.75	2.90	2.90	2.75	2.625	2.625	2.75	2.75	2.90	2.90	2.90	2.90	2.90
TRUCK DRIVERS—½ Ton or less	1.89	1.99	1.99	1.89	1.89	1.74	1.89	1.89					
TILESETTERS	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.955	2.65	2.65	2.65	2.65	2.65

* 6 Hour Day. ** 7 Hour Day. *** Before C.I.S.C for 15c increase.

Prepared and compiled by:

CENTRAL CALIFORNIA CHAPTER, ASSOCIATED GENERAL CONTRACTORS OF AMERICA, with the assistance and cooperation of secreteries of General Contractors Associations and Builders Exchanges of Northern California; and the above information for southern California is furnished by the Labor Relations Department of the Southern California Chapter, ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

NATIONAL HOME BUILDERS

(From Page 36)

display of building materials and home equipment ever presented.

Highlighting the technical program will be a presentation on residential air conditioning staged by the Air Conditioning and Refrigerating Machinery Association. A series of "how to do it" presentations will feature NAHB's famed Operation Trade Secret Program; efficient use of gas and electricity in todays homes; panel discussions by builders, government leaders and economic authorities; and "shop-talks" will complete a diversified program.

Frank W. Cortright, NAHB's executive vice president, has announced that among the featured Convention speakers will be Nathaniel Owings of Skidmore, Owings and Merrill; Joseph Keenan of the American Federation of Labor; Dr. Alan Stockdale of the National Association of Manufacturers; Brown Whatley, president of the Mortgage Bankers Association; and Clarence Manion, dean emeritus of the School of Law of the University of Notre Dame.

HEATING AND VENTILATING CHICAGO EXPOSITION

The 11th International Heating and Ventilating Exposition has been scheduled in the International Amphitheatre, Chicago, Ill., from January 26 to 30. The event being held during the 59th annual meeting of the American Society of Heating and Ventilating Engineers.

S. T. JOHNSON COMPANY BUYS BOILER FIRM

Purchase of Mears-Kane-Ofeldt, Inc., of Bridgeport, Pa., has been announced by the S. T. Johnson Co., pioneer builders of oil burners of Oakland and Philadelphia.

The Bridgeport firm has specialized in the manufacture of gas and oil fired high pressure steam boilers for over fifty years and their famous M-K-O boilers will continue to be available under the new ownership as a division of S. T. Johnson Co.

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COMBINATION
SCREEN and METAL SASH DOOR
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The "WEATHER-WISE" DOOR!!
A VENTILATING SCREEN DOOR
A SASH DOOR
A PERMANENT OUTSIDE DOOR
ALL 3 IN 1!
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IT GUARANTEES YOU YEAR 'ROUND COMFORT, CONVENIENCE and ECONOMY
WE ALSO MANUFACTURE A COMPLETE LINE OF
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SUPT., BLDG. DEPT., wanted to head Bldg. Dept. of City of Burbank in L. A. C., Calif. Sal. $683 mo. 5 yrs. admin. exp. in chg. of bldg. proj. is req. Full info. may be secured from Pers. Bd. City Hall, Burbank, Calif.

BUILDERS! You can make more money; get information you need before it is published elsewhere: Subscribe to the daily ARCHITECTS REPORTS, only $10.00 per month. Complete information from ARCHITECTS REPORTS, 68 Post Street, San Francisco. Phone DOuglas 2-8311.

PHOTOGRAPHY. For the best in construction photography, including exterior and interior, aerial, and progress views . . . you will find as many others have that it's the SKELTON STUDIOS, 875 O'Farrell St., San Francisco. Telephone PRospect 6-1841.

COLLECTIONS: For more than a generation —ready to serve you with competent legal steff, your interests protected at all times, efficient service, bonded agents everywhere, no collection no charge. California Material Dealers Service Co., 925 Hearst Bldg., San Francisco. Phone GArfield 1-5634. Ernest T. Langley, Mgr.

Registered ARCHITECT, residential and commercial. 17 years experience, seeks association with medium sized firm. Independent work, design, specifications, supervision, client contact. BOX J-3, Architect & Engineer, 68 Post Street, San Francisco, Calif.

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3-BEDROOM HOMES (New) FOR SALE: Double garage, hardwood floors, fireplace, tile kitchen and bath. MOVE-IN-NOW, low down payment. Rideout & Buchanan streets, E. Marysville (California) near Camp Beale. RONNE, RONNE & RONNE, 520 9th St., Sacramento, or Phone HUdson 1-0235.

CONSTRUCTION CONTRACTS AWARDED AND MISCELLANEOUS PERSONNEL DATA

NEW HIGH SCHOOL PLANT, Tempe, Arizona. Maricopa County Board of Supervisors, owner. Cafeteria, administration, 3 classrooms buildings, library, two physical education buildings, $600,000. ARCHITECT: Kemper Goodwin, Phoenix. Steel frame & masonry construction, concrete and asphalt tile floors, insulation, metal sash, metal lath and plaster, sheet metal, hot water unit heating, evaporative coolers and air conditioning. GENERAL CONTRACTOR: William Peper Construction Co., Phoenix.

GRAIN STORAGE ADDITION TO ISLAIS CREEK GRAIN STORAGE PLANT. San Francisco State Board of Harbor Commissioners, owner. 21 & 20 x 86 ft. high, $581,-951. STRUCTRAL ENGINEER: Harry E. Squire, San Franciscso. Reinforced concrete construction, necessary gallery and tunnel connection pit for unloading sacked grain from trucks. GENERAL CONTRACTOR: MacDonald Engineering Co., San Francisco.

BREWERY AND EQUIPMENT, San Fernando Valley, Los Angeles County, Anheuser-Busch, Inc., owner. Brew house, Bosari house, stock house, warehouse, bottling plant, service bldgs., office bldg., grain elevator, power plant, $15,000,000. CONSULTING ARCHITECTS: Meyer & Evers, San Francisco; STRUCTURAL ENGINEER: Homes & Narver, Inc., Los Angeles. Reinforced concrete and structural steel construction, concrete pile foundation. GENERAL CONTRACTOR: Peck-Cahill Co., Los Angeles.

SOUTH SALEM HIGH SCHOOL, Salem, Ore. Salem High School District, owner. 38 classrooms, music department, shops, administration suite, storage and mechancial space, gymnasium, library, theatre, $3,203,000. ARCHITECT: Freeman, Hayslip & Tuft, Portland. 2 stories, partial basement, 250,-000 sq. ft. GENERAL CONTRACTOR: Donald M. Drake, Portland.

MARKET STREET ELEMENTARY SCHOOL, Daly City, San Mateo County. Jefferson Elementary School District, owner. 32 classrooms, administration, 2 kindergartens, 2 libraries, shop, home economics, multi-purpose, kitchen & toilet rooms, $677,678. ARCHITECT: Mario Ciampi—San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: A. F. Stewart, Berkeley.

TEMPORARY CHURCH & PARISH HALL, Stockton, San Joaquin County. Roman Catholic Archbishop of S. F., owner. Presentation Parish, $129,662. ARCHITECT: Smith & Minton, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Shepherd & Green, Stockton.

INDUSTRIAL SCHOOL FOR BOYS. Ft. Grant, Arizona. Ft. Grant Industrial School for Boys, owner. Gym, locker room, classroom building, dormitory building walk-in milk parlor, $217,351. ARCHITECT: Edward L. Varney Assocs., Phoenix. Masonry and steel frame construction, 18,000 sq. ft., steel bents in gym, steel trusses in dormitory, concrete floors, asphalt tile, metal sash, gas fired unit heaters. GENERAL CONTRACTOR: Kitchell-Phillips Contractors, Inc., Phoenix.

PARKSIDE ELEMENTARY SCHOOL, Firebaugh, Fresno County. Firebaugh Elementary School District, owner. 14 classrooms, administration, kitchen, 2 kindergartens, multi-purpose, cafeteria, toilet rooms, $499,-666. ARCHITECT: Swartz & Hyberg, Fresno. Frame and stucco construction. GENERAL CONTRACTOR: Coastwide Construction Co., Stockton.

OIL REFINERY, Pinole, Contra Costa County. Tidewater Terminals, Inc., owner. $15,-000,000. ENGINEERS: Southwestern Engineering Co., Los Angeles. Oil refinery, tanks, piping, wharf, etc. GENERAL CONTRACTOR: Southwestern Engineering Co., Los Angeles.

ENTERPRISE JUNIOR HIGH SCHOOL, Compton, Los Angeles County. Compton Union High School District, owner. New administration building, homemaking unit, science unit, classroom unit, cafeteria unit, incinerator, $575,900. ARCHITECT: Daniel, Mann, Johnson & Mendenhall, Los Angeles. reinforced concrete and structural steel, masonry work, sheet metal, roofing, steel sash, metal toilet partitions, aluminum louvers, asphalt tile, heating and ventilating. GENERAL CONTRACTOR: Paul W. Speer, Inc., Los Angeles.

CAST STEEL FOUNDRY BUILDING, Oakland, Alameda County. General Metal Corp., owner. 125,000 sq. ft., $5,000,000. ARCHITECT: McClellan, MacDonald & Markwith, Los Angeles. STRUCTURAL STEEL frame and reinforced concrete, panelcrete walls, metal roof deck, composition roofing, steel sash, insulation, concrete floor, conveyors and cranes. STRUCTURAL STEEL CONTRACTOR: Bethlehem Pacific Coast Steel Co., San Francisco.

COUNTY HOSPITAL ADDITION, Martinez, Contra Costa County. County of Contra Costa, owner. 2 story, $546,025. ARCHITECT: Masten & Hurd, San Francisco. Frame construction, reinforced concrete foundation, concrete floor slab. GENERAL CONTRACTOR: Swinerton & Walberg, San Francisco.

GOLDEN GATE RECREATION CENTER, Oakland, Alameda County. City of Oakland, owner, $144,077. ARCHITECT: Reynolds & Chamberlin, Oakland. 1 story, frame and stucco and veneer club house. GENERAL CONTRACTOR: Robert S. Miller, Richmond.

CONSTRUCTION CONTRACTS .....

TEMPLE & SCHOOL, San Leandro, Alameda County. Temple Beth-Sholem, owner. Assembly hall, kitchen, Sunday school, shower, and locker rooms, $112,680. ARCHITECT: Appelton & Wolford, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: A. Holyoake, Hayward.

ADDITION TO HOSPITAL BUILDING, Los Angeles, Los Angeles County. College of Medical Evangilists, owner. Dining room, 199 beds, nurses station, toilets and locker rooms, 6 stories, $2,000,000. ARCHITECT: Earl Heitschmidt, Los Angeles. Reinforced concrete construction, 140 x 250 ft., composition roofing, concrete slab and osphalt tile, three elevators, gas heating and ventilation. GENERAL CONTRACTOR: Havstad and Jensen, Los Angeles.

MISSION BAY SENIOR HIGH SCHOOL, San Diego, San Diego County. San Diego Unified School District, owner. 16 buildings, 113,390 sq. ft., $1,603,000. ARCHITECT: Clyde Hufbauer, San Diego. Frame and stucco construction, lighting, air conditioning, asphalt concrete paving, insulation, marble work, metal lath, metal skylights, steel sash, steel roof trusses, terrazzo. GENERAL CONTRACTOR: Riha Construction Co. and B. C. Hammann, San Diego.

NEW EL VISTA ELEMENTARY SCHOOL, Modesto, Stanislaus County. Modesto Board of Education, owner. 10 classrooms, administration, kindergarten and toilet rooms, $192,684. ARCHITECT: Russell G. DeLappe, Berkeley. Frame and Stucco construction. GENERAL CONTRACTOR: Peter Mattei, Construction Co., Berkeley.

ADDITION TO TELEPHONE BUILDING, Oceaside, San Diego County. Pacific Telephone & Telegraph Co., owner. 2 story and basement, $250,000. ARCHITECT: Parkinson, Briney, Bernard & Woodford, Los Angeles. Reinforced concrete construction, tar and gravel roofing, masonry work, interior plastering, metal sash, concrete floors with asphalt tile floor covering, acoustical work, ceramic tile. heating and ventilating. GENERAL CONTRACTOR: Trepte Construction Co., San Diego.

WAREHOUSE, San Francisco. John McCarthy & Son, owner. $165,000. ENGINEER: George H. Jennings, Berkeley. 1 story and mezzanine, reinforced concrete, tilt-up construction. GENERAL CONTRACTOR: Associated Construction & Engineering Co., San Francisco.

HOME ECONOMICS BUILDING. West Los Angeles, Los Angeles County. Board of Regents of the University of California at Los Angeles, owner. 3 story and part basement, 55,000 sq. ft., $938,844. ARCHITECT: Austin, Field & Fry, Los Angeles. Reinforced concrete and masonry construction, composition roofing, concrete floor, asphalt tile floor covering, steel sash, acoustical work.

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hot water radiators, forced ventilation, plumbing, sliding glass doors, tempered glass doors, aluminum panels, aluminum louvers, terrazzo, plastic tile, ceramic tile, metal toilet partitions. GENERAL CONTRACTOR: H. M. Hodges & Pozzo Construction Co., Los Angeles.

ELEMENTARY SCHOOL, Chula Vista, San Diego County. Chula Vista School District, owner. 1 story, 12 classrooms, administration, room, kitchen, 2 kindergartens, $342,500. ENGINEER: E. L. Freeland, San Diego. Frame & stucco construction. GENERAL CONTRACTOR: H. W. Grizzle, San Diego.

SEWAGE TREATMENT PLANT, Sacramento, Sacramento County. City of Sacramento, owner, $4,309,500. ARCHITECT: Clyde C. Kennedy, San Francisco. Reinforced concrete construction. GENERAL CONTRACTOR: Stolte Inc. & Fred J. Early, Jr., Oakland.

STORAGE BUILDING, San Gabriel, Los Angeles County. Bekins Van & Storage Co., owner. 4 stories and basement, $225,000. ENGINEER: C. Duel, Los Angeles. Reinforced concrete construction, asphaltic gravel roofing, slab floors, elevator, plumbing, plate glass. GENERAL CONTRACTOR: C. R. Parke, Santa Ana.

AUTOMOBILE SALES & SERVICE BUILDING, San Francisco. C. M. Murphy, owner, $180,000. ARCHITECT: Max Maltzman, Los Angeles. Reinforced concrete construction. GENERAL CONTRACTOR: Jacks & Irvine, San Francisco.

CHURCH & PARISH HALL, Cupertino, Santa Clara County. Roman Catholic Archbishop of San Francisco, owner. St. Josejh Parish, $148 997. ARCHITECT: Vincent G. Raney, San Francisco. Frame and stucco construction. GENERAL CONTRACTOR: Well P. Goodenough, Palo Alto.

JUVENILE HALL BUILDING, Linda Vista, San Diego County. San Diego County Board of Supervisors, owner. 1 story, class A, $943,500. ARCHITECT: George Lykos, San Diego. Concrete and masonry construction, concrete floor and roof slabs, perimeter radiant heating, waterproofing, steel sash, sheet metal, reinforcing steel, plate glass, metal skylights, metal lath, fire doors. GENERAL CONTRACTOR: F. E. Young, San Diego.

HIGH SCHOOL, Victorville, San Bernardino County. Victor Valley High School District, owner. 1 story, classrooms, cafeteria, shop building, shower and locker building, 50,000 sq. ft., $862,963. ARCHITECTS: Marsh, Smith & Powell, Los Angeles. Reinforced concrete construction, composition roofing, concrete floor, radiant heating. GENERAL CONTRACTOR: T. A. Stanfield, San Bernardino.

ELEMENTARY SCHOOL BUILDING, Pixley, Tulare County. Pixley Elementary School District, owner. 14 classrooms, administration, kitchen, 2 kindergartens, multi-purpose, domestic science and toilet rooms, $568,795. ARCHITECT: Coates & Metz, Fresno. Frame and stucco construction, steel sash, asbestos shingle roof. GENERAL CONTRACTOR: R. Pedersen & son, Fresno.

LOW RENT HOUSING PROJECT, Los Angeles, Los Angeles County. Housing Authority of the City of Los Angeles, owner. 2 story buildings, 1,110 units, 07,057,000. ARCHITECT: Paul R. Williams, Los Angeles. Cement block and frame and stucco construction, composition roofing, cement floor, steel sash, gas wall heaters, interior plastering, electrical work, tile counter tops. GENERAL CONTRACTOR: Robert E. McKee, Inc., West Los Angeles.

ESTRADA COURTS LOW RENT HOUSING PROJECT, Los Angeles, Los Angeles County. Housing Authority of the City of Los Angeles, owner. 200 dwelling units, $1,323,500. ARCHITECT: Paul R. Hunter, Los Angeles. Frame and stucco construction, cement asbestos shingles, composition roofing, cement asphalt tile and hardwood flooring, steel sash, interior plastering, stainless steel or ceramic counter tops, gas wall heaters, sheet metal. GENERAL CONTRACTOR: Harvey & Rose, Arcadia.

CLOVIS-WELDON SCHOOL, Clovis, Fresno County. Clovic Elementary School District, owner. 2 classrooms, administration, kindergarten, home-making, shop, multi-purpose, $233,400. ARCHITECT: Horn & Mortland, Fresno. Structural steel frame & frame construction, stucco, composition roofing, concrete slab, asphalt tile floors, radiant heating. GENERAL CONTRACTOR: Lewis C. Nelson & Son, Fresno.

GREEN HOUSES AND HORTICULTURE BUILDINGS, U. C. L. A., Los Angeles, Los Angeles County. Regents of the University of California, owner. $126,591. ARCHITECT: Latta & Denney, Glendale. GENERAL CONTRACTORS: Contracting Engineers Co., Los Angeles.

SHIELDING FOR MICRO-WAVE BUILDING, Palo Alto, Santa Clara County. Stanford University, owner. Approximately $200,000. ARCHITECT: Ambrose & Spencer, San Francisco. GENERAL CONTRACTOR: Wagner & Martinez, San Francisco.

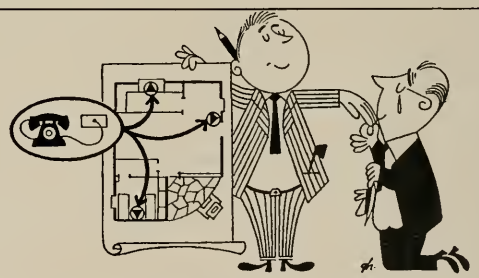
WAREHOUSE & OFFICE BUILDING, West Los Angeles, Los Angeles County. La Grande Development Co., owner. $219,938. ARCHITECT: Meyer & Evers, San Francisco. Reinforced concrete construction, composition roofing, cement and asphalt tile covered floors, gas fired boiler, skylights, plywood partitions, brick veneer, steel sash, pipe railings and columns, metal toilet stalls, acoustic tile ceilings. GENERAL CONTRACTOR: William P. Neil Co., Los Angeles.

CHARELSTON ROAD ELEMENTARY SCHOOL, LOUIS ROAD ELEMENTARY SCHOOL, VENTURA AVE. ELEMENTARY SCHOOL, Palo Alto, Santa Clara County. Palo Alto Board of Education, owner. 24 classrooms, 3 administrations, 6 kindergartens, & toilet rooms, $587,447. ARCHITECT: Clark & Stromquist, Palo Alto. Frame and Stucco construction. GENERAL CONTRACTOR: Howard J. White, Inc., Palo Alto.

APARTMENT BUILDING, West Los Angeles, Los Angeles County. Weber and Fellman, owner. 2 story, 40 family, 114 rooms, $200,000. ARCHITECT: Louis Selden, Los Angeles. Frame and stucco construction, redwood siding, 129 x 230 ft., composition roofing, hardwood and linoleum covered floors, redwood partitions, gas heaters, gas wall heaters, steel and wood sash, glass louvers, swimming pool, tile baths, stall showers, electric bathroom heaters, ceramic tile bathroom floors. GENERAL CONTRACTOR: owner builds.

PAROCHIAL SCHOOL & SOCIAL HALL, Los Altos, Santa Clara County. Roman Catholic Archbishop of San Francisco, owner. 8 classrooms, administration & toilet rooms, $260,023. ARCHITECT: Lawrence W. Gentry, Los Altos. Frame & stucco construction. GENERAL CONTRACTOR: Sibley G. & T. Co., Menlo Park.

DOLORES STREET SCHOOL, Los Angeles, Los Angeles County. Los Angeles Board of Education, owner. $207,500. ARCHITECT: A. S. Nibecker, Jr., Los Angeles. GENERAL CONTRACTOR: Hudson Construction Co., Los Angeles.



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IN THE NEWS

ARCHITECT SELECTED

Architects Will G. Corlett and A. W. Anderson of Oakland have been commissioned by the Board of Supervisors of Alameda county to design a new Health Center Building to be erected on the Fairmount Hospital grounds.

NEW BANK ON GUAM

The Bank of America will soon extend its services into the far Pacific and plans on constructing a Bank of America building on the Island of Guam.

ARCHITECT SELECTED

Architect Harry J. Devine, of Sacramento, has been chosen by the Solano County Board of Supervisors, to draw plans and specifications for the construction of various additions to the Solano County Fairgrounds buildings at Vallejo.

Construction will include enlargement of parimutual facilities ,roofing of the grandstand, sheep barns, cafeteria, and a horse show barn.

COURT HOUSE ADDITION

Architect Robert Keeney of Medford, Oregon, has been commissioned by the Siskiyou County board of supervisors to draft plans for the construction of a 2-story, and basement, addition to the County Court House in Yreka.

Construction will be of reinforced concrete.

HOSPITAL SITE PURCHASED

The Permanente Hospital Foundation, with headquarters in Oakland, has purchased a site in Santa Clara county, near the city of Santa Clara, for the purpose of constructing a new Permanente Hospital.

The site is on the Santa Clara-Los Gatos highway.

EXHIBITION BUILDING

Architect C. J. Ryland of Monterey is currently engaged in designing a new Exhibition Building to be erected at the Santa Clara County Fair Grounds in San Jose.

The building, which has been authorized by the board of supervisors and will cost approximately $520,000, will be of concrete with laminated wood arched roof.

ARCHITECT SELECTED

The architectural firm of Schmidts & Hardman of Berkeley, has been chosen by the San Leandro Unified School District board to draft plans and specifications for the construction of a new junior High School and a new Elementary School in San Leandro.

Cost of the projected schools is approximately $2,000,000.

OIL REFINERY FOR PINOLE

A certificate of necessity has been issued to Tidewater Terminals Inc., Oakland, for the construction of a new Oil Refinery near Pinole in Contra Costa county.

The project will cost about $25,500,000, and according to officials of Southwestern Engineers of Los Angeles, work will commence at once.

PALO ALTO TO HAVE SHOPPING CENTER

Plans are under way for the construction of a new shopping center in Palo Alto at Alma Street and Diss Road.

Comprising a department store, supermarket and a group of stores the project will be called the "Mid Peninsula World" and will represent an investment of more than $1,500,000.

Morgan Stedman, Palo Alto, is the architect.

SCHOOL BONDS APPROVED

A special School Bond election to provide $1,300,000 for construction of a new school building and to make additions to existing schools was recently approved by voters of the San Lorenzo Elementary School District of Alameda County.

The architectural firm of Schmidts & Hardman of Berkeley has been commissioned by the School Board to draw plans for the project.

SCHOOL BONDS DEFEATED

Voters of the Porterville Union High School District, Porterville, recently rejected a proposed $664,000 school bond issue at a special election.

Funds were proposed for the construction of a main classroom and shop building.

NEW CHURCH AND PARISH HALL

The Roman Catholic Archbishop of San Francisco recently announced construction would soon start on a new Church and Parish Hall to be built in Cupertino, Santa Clara county.

Cost of the proposed frame and stucco buildings is $148,997. Architect Vincent G. Raney of San Francisco, is the architect.

ARCHITECT SELECTED

Architect Wm. G. Merchant of San Francisco, has been chosen by the San Francisco Medical Society to draw plans and specifications for the construction of administration offices for the Irwin Memorial Blood Bank.

The new building will be of 3-story design, containing 34,000 sq. ft. and will include an auditorium to seat 1,000 persons; blood bank facilities, and general offices.

BONDS FOR HOSPITAL

Voters of the Washington Township Hospital District, Niles, approved a bond issue of $1,250,000 at a special election. Funds are to be used for the construction of a new 50-bed Washington Township Hospital near Niles.

Sorensen & Ellsworth of Niles are the architects.

OHIO PASSES LAW ON HOUSE TRAILER

The State of Ohio is the first in the Union to enact legislation providing for adequate water and sanitary facilities for house trailer parks.

The House Trailer Park Sanitation Law insists that all house trailer park operators be licensed by local and district Boards of Health wherever trailer parks are located. Prior to licensing, an operator must submit and receive approval on all plans and specifications for proposed water supply, sewage and sewage disposal, plumbing, drainage and sanitary equipment.

The new law makes it mandatory for the house trailer park opefator to provide a complete sanitary sewage system, and each trailer must be properly connected to such system.

AUTOMOBILE SALES AND SERVICE

Architect Leonard H. Ford of Walnut Creek, is working on a new 1-story automobile sales and service building to be built in San Rafael.

The building will contain 12,000 sq. ft. of floor space; will have wood roof trusses, and will be of concrete.

Estimated cost is $70,000.

IMPROVEMENT BOND ELECTION FAILS

A proposal to issue $5,000,000 in bonds for the purpose of financing the construction of an addition to the Marin County Court House, and the development of a new County Civic Center in San Rafael, was recently rejected by voters of the county.

The plan submitted to voters called for $1,500,000 for court house improvements, and $3,500,000 for the civic center.

NEW LOUVRE DIFFUSER EFFICIENT LIGHTING

An advanced concept of architectural beauty and lighting efficiency is revealed in a new louvre diffuser created by the Edwin F. Guth Co., of Sa. Louis, called the GRATELITE.

It is a integral plastic louvre for fluorescents which allows as much light to pass through as the best diffusing glassware. Diffusion results from 3/8" cubical facets which give 45° x 45° lengthwise and crosswise lamp shielding; makes a permanent installation easy to maintain; furnished in sizes up to 4' long.

ARCHITECTURAL FIRM EXPANDS

The architectural firm of Paul A. Ryan and John Michael Less recently announced the appointment of Hans G. Glass, Architect, as a partner in the firm of Ryan and Lee, Architects.

Main offices of the firm are in San Francisco.

SCHOOL BONDS APPROVED

Voters of the Healdsburg Union High School District, Sonoma county, recently approved $775,000 at a special election to be used in constructing a new High School building in the City of Healdsburg.

NEW VALLEY BREWERY

San Fernando Valley will soon have a new brewery building according to an an-

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nouncement by Anheuser-Busch, Inc., of St. Louis.

Presently announced plans call for the construction of a $15,000,000 structure on Roscoe Blvd.

Holmes & Narver, Inc., of Los Angeles are the Engineers, and Meyer & Evans of San Francisco are Consulting Architects.

PLYWOOD FACTORY ADDITION

A 1-story addition containing 37,000 sq. ft. is being added to the Shasta Plywood, Inc. plant at Anderson, Calif.

Cost of the improvements will exceed $100,000 according to Lockwood Greene Engineers, Inc. of New York City, engineers for the project.

SCHOOL BONDS DEFEATED

Voters of the Nevado County Union High School District recently rejected a proposal to issue $1,000,000 in bonds for the construction of a new High School building in Grass Valley, California.

The plan was submitted at a special election.

HOME BUILDERS INSTITUTE OF LOS ANGELES

Mark A. Thoreson, president of the Home Builders Institute of Los Angeles has announced the appointment of J. W. (Bill) O'Sullivan as secretary of the Home Builders Institute. He will assist Ray V. Carey, executive vice-president.

O'Sullivan leaves the position of sales manager of Westwood Building Materials of Los Angeles.

HOSPITAL BONDS ARE APPROVED

Voters of the Eden Township Hospital District, San Lorenzo, approved a plan to issue $975,000 in bonds to build a 2-story addition to the District hospital in Castro Valley, which is now under construction.

Architects D. D. Stone & Lou Mulloy of San Francisco are architects on the work.

ARCHITECT FOR CHURCH

Architect Donald G. French of San Bruno has been chosen by the St. Andrews Episcopal Church of Lomita Park, to draft plans and specifications for the construction of a new Church building in the City of San Bruno.

HUNTINGTON BEACH SCHOOL ADDITION

The architectural firm of Allison & Rible of Los Angeles, has been commissioned by the Huntington Beach High School Board to draft plans for the construction of a $562,458 addition to the Huntington Beach High School.

The work will comprise three new buildings, two of them will be of reinforced concrete to harmonize with the present school plant, and the third will be of wood and steel framing.

MUNICIPAL IMPROVEMENT BOND ELECTION FAILS

A plan, submitted by the Board of Supervisors of San Joaquin County to the voters, proposing the issuance of $6,500,000 in bonds to finance the cost of constructing a new San Joaquin County Court House, and $500,000 for a new jail, both buildings to be built in Stockton, was rejected by the voters at a recent special election.

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